

DRAFT DEFENDANT & MINE REPORTS

HISTORICAL RESEARCH ASSOCIATES, INC.
MISSOULA, MT

"ROUGH CUT"

November 14, 1997

USEPA SF



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C. Villa

Draft Summary Report on Defendants' Share

Defendant	Percent Responsibility from Total	Total Mined Ore Tons
Alice Consolidated Mines, Inc.	0.06%	49,419
ARCO - Atlantic Richfield Company	0.35%	289,917
ASARCO	7.40%	6,198,876
Blackhawk Mining & Development Company	0.26%	214,126
Burlington Northern & Santa Fe Railway Co.	0.00%	0
Callahan Consolidated Mines, Inc.	0.13%	108,750
Callahan Mining Corporation	3.59%	3,011,041
Coeur d'Alene Mines Corporation	0.90%	754,608
Constitution Mining Company	0.82%	684,429
Douglas Mining Company	0.18%	148,067
Federal Mining and Smelting Co.	28.49%	23,877,208
Golconda Lead Mines, Inc.	0.34%	288,101
Golconda Mining Corporation	0.07%	57,618
Green Hill Cleveland Mining Company	0.56%	467,849
Group R Company, Inc.	0.00%	0
Hecla Mining Company, Inc.	43.98%	36,861,898
Highland Surprise Consolidated Mining Co.	0.62%	518,600
Hypothek Mining & Milling Company	0.11%	88,702
Lookout Mountain Mining & Milling Company	0.00%	0
Mascot Silver-Lead Company	0.38%	318,327
Nabob Silver-Lead Company	0.15%	128,361
Nevada-Stewart Mining Company	0.00%	0
Philipp Brothers, Inc.	0.00%	0
Sidney Mining Company	1.28%	1,076,917
Silver Bowl, Inc.	1.24%	1,041,914
Silver Mountain Lead Mines, Inc.	0.00%	0
Sunshine Mining and Refining Company, Inc.	9.01%	7,549,794
Union Pacific Railroad Company	0.00%	0
William Zanetti	0.00%	0
Zanetti Brothers, Inc.	0.10%	82,007
		<hr/> 83,816,527

ALICE

Draft Defendant Company Report

Alice Consolidated Mines, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Alice	1909 — 1926	49,419
Total Tons of Mined Ore:		49,419
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.06%

The above defendant company is successor in interest to the following owner / operators:

Alice Mining Co.

Draft Mine Production Report

Alice Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1909	Alice Mining Co.	Owner 100.00%	2,746
1910	Alice Mining Co.	Owner 100.00%	2,746
1911	Alice Mining Co.	Owner 100.00%	2,746
1912	Alice Mining Co.	Owner 100.00%	2,746
1913	Alice Mining Co.	Owner 100.00%	2,746
1914	Alice Mining Co.	Owner 100.00%	2,746
1915	Alice Mining Co.	Owner 100.00%	2,746
1916	Alice Mining Co.	Owner 100.00%	2,746
1917	Alice Mining Co.	Owner 100.00%	2,746
1918	Alice Mining Co.	Owner 100.00%	2,745
1919	Alice Mining Co.	Owner 100.00%	2,745
1920	Alice Mining Co.	Owner 100.00%	2,745
1921	Alice Mining Co.	Owner 100.00%	2,745
1922	Alice Mining Co.	Owner 100.00%	2,745
1923	Alice Mining Co.	Owner 100.00%	2,745
1924	Alice Mining Co.	Owner 100.00%	2,745
1925	Alice Mining Co.	Owner 100.00%	2,745
1926	Alice Mining Co.	Owner 100.00%	2,745
Total Short Tons of Mined Ore:			49,419
Total Short Tons from this mine according to Bennett and Mitchell:			49,419

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Alice Mining Co.	49,419	100.00%
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ARCO

Draft Defendant Company Report

ARCO - Atlantic Richfield Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Sunset	1940 — 1976	285,929
Douglas	1916 — 1918	3,988
Total Tons of Mined Ore:		289,917
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.35%

The above defendant company is successor in interest to the following owner / operators:

Anaconda Co.

Clark-Montana Realty Co.

William Clark

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1916	Anaconda Co.	Operator	50.00%	160
	Douglas Mining Co., Ltd.	Owner	50.00%	160
1917	Anaconda Co.	Operator	50.00%	3,616
	Douglas Mining Co., Ltd.	Owner	50.00%	3,616
1918	Anaconda Co.	Operator	50.00%	213
	Douglas Mining Co., Ltd.	Owner	50.00%	213
1925	Douglas Mining Co., Ltd.	Owner	100.00%	121
1926	Douglas Mining Co., Ltd.	Owner	100.00%	3,458
1927	Douglas Mining Co., Ltd.	Owner	100.00%	1,681
1929	Douglas Mining Co., Ltd.	Owner	100.00%	318
1936	Douglas Mining Co., Ltd.	Owner	100.00%	77
1942	Douglas Mining Co., Ltd.	Owner	100.00%	7,500
1943	Douglas Mining Co., Ltd.	Owner	100.00%	12,789
1944	Douglas Mining Co., Ltd.	Owner	100.00%	23,608
1945	Douglas Mining Co., Ltd.	Owner	100.00%	19,116
1946	Douglas Mining Co., Ltd.	Owner	100.00%	15,112
1947	Douglas Mining Co., Ltd.	Owner	100.00%	15,536
1948	Douglas Mining Co., Ltd.	Owner	100.00%	17,740
1949	Douglas Mining Co., Ltd.	Owner	100.00%	8,134
1951	Douglas Mining Co.	Owner	50.00%	75
	Spokane-Idaho Mining Co.	Operator	50.00%	75
1952	Douglas Mining Co.	Owner	50.00%	5,130
	Spokane-Idaho Mining Co.	Operator	50.00%	5,130
1953	Douglas Mining Co.	Owner	50.00%	5,814
	Spokane-Idaho Mining Co.	Operator	50.00%	5,814
1954	Douglas Mining Co.	Owner	50.00%	4,151
	Spokane-Idaho Mining Co.	Operator	50.00%	4,151
1955	Douglas Mining Co.	Owner	50.00%	1,939
	Spokane-Idaho Mining Co.	Operator	50.00%	1,939
1956	Douglas Mining Co.	Owner	100.00%	24
1958	Douglas Mining Co.	Owner	100.00%	259
1967	Douglas Mining Co.	Owner	100.00%	408
1968	Douglas Mining Co.	Owner	100.00%	572
1969	Douglas Mining Co.	Owner	100.00%	178
1970	Douglas Mining Co.	Owner	100.00%	153
1971	Douglas Mining Co.	Owner	100.00%	161
1972	Douglas Mining Co.	Owner	100.00%	26

Total Short Tons of Mined Ore:	169,162
Total Short Tons from this mine according to Bennett and Mitchell:	167,162

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Douglas Mining Co., Ltd.	129,178	76.36%
Douglas Mining Co.	18,889	11.17%
Spokane-Idaho Mining Co.	17,108	10.11%
Anaconda Co.	3,988	2.36%

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	William Clark	Owner 100.00%	25
1922	Clark-Montana Realty Co.	Owner 100.00%	76
1923	Clark-Montana Realty Co.	Owner 100.00%	67
1925	Clark-Montana Realty Co.	Owner 100.00%	22
1940	Anaconda Co.	Owner 100.00%	5,603
1941	Anaconda Co.	Owner 100.00%	25,416
1942	Anaconda Co.	Owner 100.00%	20,200
1943	Anaconda Co.	Owner 100.00%	24,917
1944	Anaconda Co.	Owner 100.00%	22,547
1945	Anaconda Co.	Owner 100.00%	24,982
1946	Anaconda Co.	Owner 100.00%	27,656
1947	Anaconda Co.	Owner 100.00%	32,185
1948	Anaconda Co.	Owner 100.00%	26,704
1949	Anaconda Co.	Owner 50.00%	10,792
	Day Mines, Inc.	Operator 50.00%	10,792
1950	Anaconda Co.	Owner 50.00%	17,439
	Day Mines, Inc.	Operator 50.00%	17,439
1951	Anaconda Co.	Owner 34.00%	11,390
	Day Mines, Inc.	Operator 33.00%	11,055
	Zanetti Bros.	Operator 33.00%	11,055
1952	Anaconda Co.	Owner 33.00%	8,255
	Day Mines, Inc.	Operator 34.00%	8,505
	Zanetti Bros.	Operator 33.00%	8,255
1953	Anaconda Co.	Owner 33.00%	10,201
	Day Mines, Inc.	Operator 33.00%	10,201
	Zanetti Bros.	Operator 34.00%	10,510
1954	Anaconda Co.	Owner 34.00%	5,722
	Day Mines, Inc.	Operator 33.00%	5,553
	Zanetti Bros.	Operator 33.00%	5,553
1955	Anaconda Co.	Owner 33.00%	4,838
	Day Mines, Inc.	Operator 34.00%	4,984
	Zanetti Bros.	Operator 33.00%	4,838
1956	Anaconda Co.	Owner 33.00%	1,924
	Day Mines, Inc.	Operator 33.00%	1,924
	Zanetti Bros.	Operator 34.00%	1,982
1957	Anaconda Co.	Owner 34.00%	3,581
	Day Mines, Inc.	Operator 33.00%	3,476
	Zanetti Bros.	Operator 33.00%	3,476
1958	Anaconda Co.	Owner 33.00%	663
	Day Mines, Inc.	Operator 34.00%	683
	Zanetti Bros.	Operator 33.00%	663
1976	Anaconda Co.	Owner 33.00%	726
	Day Mines, Inc.	Operator 33.00%	726
	Zanetti Bros.	Operator 34.00%	748

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Total Short Tons of Mined Ore:	408,347
Total Short Tons from this mine according to Bennett and Mitchell:	355,032

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Anaconda Co.	285,739 69.97%
Day Mines, Inc.	75,338 18.45%
Zanetti Bros.	47,080 11.53%
Clark-Montana Realty Co.	165 0.04%
William Clark	25 0.01%

ASARCO

Draft Defendant Company Report

ASARCO

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Helena-Frisco	1953 — 1967	1,360,689
Standard-Mammoth	1965 — 1965	766,556
Morning	1953 — 1960	281,161
Coeur Unit	1969 — 1980	348,889
Galena	1950 — 1980	1,562,390
Page	1953 — 1969	1,879,190
Total Tons of Mined Ore:		6,198,876
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		7.40%

The above defendant company is successor in interest to the following owner / operators:

American Smelting and Refining Co.

ASARCO

Frisco Mining Co., Limited

Various Helena-Frisco Mine Owners

Various Standard-Mammoth Mine Owners

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1974	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1976	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1977	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1978	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1979	American Smelting and Refining Co.	Owner	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Operator	40.00%
	Day Mines, Inc.	Operator	5.00%
1980	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
Total Short Tons of Mined Ore:			755,620
Total Short Tons from this mine according to Bennett and Mitchell:			755,618

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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American Smelting and Refining Co.	348,889	46.17%
Coeur d'Alene Mines Corp.	302,248	40.00%
Day Mines, Inc.	52,241	6.91%
Callahan Mining Corp.	52,241	6.91%

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner 100.00%	91
1926	Callahan Zinc-Lead Co.	Owner 100.00%	8,600
1927	Callahan Zinc-Lead Co.	Owner 100.00%	54,698
1928	Callahan Zinc-Lead Co.	Owner 100.00%	3,429
1929	Callahan Zinc-Lead Co.	Owner 100.00%	21,501
1930	Callahan Zinc-Lead Co.	Owner 100.00%	11,654
1931	Callahan Zinc-Lead Co.	Owner 100.00%	663
1935	Callahan Zinc-Lead Co.	Owner 100.00%	95
1937	Callahan Zinc-Lead Co.	Owner 100.00%	1,300
1938	Callahan Zinc-Lead Co.	Owner 100.00%	79
1950	American Smelting and Refining Co.	Operator 67.50%	1,089
	Day Mines, Inc.	Operator 22.50%	363
	Vulcan Silver and Lead Co.	Owner 10.00%	161
1951	American Smelting and Refining Co.	Operator 67.50%	696
	Day Mines, Inc.	Operator 22.50%	232
	Vulcan Silver and Lead Co.	Owner 10.00%	103
1952	American Smelting and Refining Co.	Operator 67.50%	8,570
	Day Mines, Inc.	Operator 22.50%	2,857
	Vulcan Silver and Lead Co.	Owner 10.00%	1,270
1953	American Smelting and Refining Co.	Operator 67.50%	29,340
	Day Mines, Inc.	Operator 22.50%	9,780
	Vulcan Silver and Lead Co.	Owner 10.00%	4,347
1954	American Smelting and Refining Co.	Operator 67.50%	32,915
	Day Mines, Inc.	Operator 22.50%	10,972
	Vulcan Silver and Lead Co.	Owner 10.00%	4,876
1955	American Smelting and Refining Co.	Operator 67.50%	38,130
	Day Mines, Inc.	Operator 22.50%	12,710
	Vulcan Silver and Lead Co.	Owner 10.00%	5,649
1956	American Smelting and Refining Co.	Operator 67.50%	59,349
	Day Mines, Inc.	Operator 22.50%	19,783
	Vulcan Silver and Lead Co.	Owner 10.00%	8,793
1957	American Smelting and Refining Co.	Operator 67.50%	83,112
	Day Mines, Inc.	Operator 22.50%	27,704
	Vulcan Silver and Lead Co.	Owner 10.00%	12,313
1958	American Smelting and Refining Co.	Operator 67.50%	80,880
	Callahan Mining Corp.	Owner 10.00%	11,982
	Day Mines, Inc.	Operator 22.50%	26,960
1959	American Smelting and Refining Co.	Operator 37.50%	44,170
	Callahan Mining Corp.	Owner 50.00%	58,893
	Day Mines, Inc.	Operator 12.50%	14,723
1960	American Smelting and Refining Co.	Operator 37.50%	18,261
	Callahan Mining Corp.	Owner 50.00%	24,348
	Day Mines, Inc.	Operator 12.50%	6,087
1961	American Smelting and Refining Co.	Operator 37.50%	44,769

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1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794

Total Short Tons of Mined Ore: 3,872,535

**Total Short Tons from this mine
according to Bennett and Mitchell:** 3,872,524

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

Draft Mine Production Report

Helena-Frisco Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1897	Various Helena-Frisco Mine Owners	Owner	100.00% 66,363
1898	Various Helena-Frisco Mine Owners	Owner	100.00% 186,177
1899	Various Helena-Frisco Mine Owners	Owner	100.00% 401,468
1900	Various Helena-Frisco Mine Owners	Owner	100.00% 188,598
1901	Various Helena-Frisco Mine Owners	Owner	100.00% 40,728
1902	Various Helena-Frisco Mine Owners	Owner	100.00% 18,858
1903	Various Helena-Frisco Mine Owners	Owner	100.00% 90,600
1904	Various Helena-Frisco Mine Owners	Owner	100.00% 14,970
1905	Frisco Mining Co., Limited	Owner	100.00% 1,125
1906	Frisco Mining Co., Limited	Owner	100.00% 775
1907	Frisco Mining Co., Limited	Owner	100.00% 55,846
1908	Frisco Mining Co., Limited	Owner	100.00% 1,301
1909	Frisco Mining Co., Limited	Owner	100.00% 695
1910	Frisco Mining Co., Limited	Owner	100.00% 307
1911	Frisco Mining Co., Limited	Owner	100.00% 241
1912	Frisco Mining Co., Limited	Owner	100.00% 70
1913	Federal Mining & Smelting	Owner	100.00% 22
1915	Federal Mining & Smelting	Owner	100.00% 43,513
1916	Federal Mining & Smelting	Owner	100.00% 117,806
1917	Federal Mining & Smelting	Owner	100.00% 1,260
1918	Federal Mining & Smelting	Owner	100.00% 961
1919	Federal Mining & Smelting	Owner	100.00% 1,551
1920	Federal Mining & Smelting	Owner	100.00% 2,636
1921	Federal Mining & Smelting	Owner	100.00% 605
1922	Federal Mining & Smelting	Owner	100.00% 816
1923	Federal Mining & Smelting	Owner	100.00% 675
1924	Federal Mining & Smelting	Owner	100.00% 679
1925	Federal Mining & Smelting	Owner	100.00% 2,056
1926	Federal Mining & Smelting	Owner	100.00% 2,187
1927	Federal Mining & Smelting	Owner	100.00% 30,000
1928	Federal Mining & Smelting	Owner	100.00% 32,600
1929	Federal Mining & Smelting	Owner	100.00% 32,595
1930	Federal Mining & Smelting	Owner	100.00% 5,486
1931	Federal Mining & Smelting	Owner	100.00% 20,958
1932	Federal Mining & Smelting	Owner	100.00% 1,453
1933	Federal Mining & Smelting	Owner	100.00% 37,000
1934	Federal Mining & Smelting	Owner	100.00% 33,000
1935	Federal Mining & Smelting	Owner	100.00% 50,032
1936	Federal Mining & Smelting	Owner	100.00% 35,000
1937	Federal Mining & Smelting	Owner	100.00% 27,460
1938	Federal Mining & Smelting	Owner	100.00% 27,250
1939	Federal Mining & Smelting	Owner	100.00% 23,708
1940	Federal Mining & Smelting	Owner	100.00% 20,758
1941	Federal Mining & Smelting	Owner	100.00% 32,000

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1942	Federal Mining & Smelting	Owner	100.00%	29,837
1943	Federal Mining & Smelting	Owner	100.00%	59,611
1944	Federal Mining & Smelting	Owner	100.00%	54,851
1945	Federal Mining & Smelting	Owner	100.00%	50,863
1946	Federal Mining & Smelting	Owner	100.00%	46,987
1947	Federal Mining & Smelting	Owner	100.00%	67,464
1948	Federal Mining & Smelting	Owner	100.00%	79,831
1949	Federal Mining & Smelting	Owner	100.00%	75,147
1950	Federal Mining & Smelting	Owner	100.00%	106,348
1951	Federal Mining & Smelting	Owner	100.00%	81,767
1952	Federal Mining & Smelting	Owner	100.00%	78,917
1953	American Smelting and Refining Co.	Owner	100.00%	96,656
1954	American Smelting and Refining Co.	Owner	100.00%	81,534
1955	American Smelting and Refining Co.	Owner	100.00%	52,414
1956	American Smelting and Refining Co.	Owner	100.00%	48,856
1957	American Smelting and Refining Co.	Owner	100.00%	5,942
1960	American Smelting and Refining Co.	Owner	100.00%	754
1966	American Smelting and Refining Co.	Owner	100.00%	1,386
1967	American Smelting and Refining Co.	Owner	100.00%	5,025

Total Short Tons of Mined Ore:	2,676,379
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Total Short Tons from this mine according to Bennett and Mitchell:	2,676,379
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	1,315,690	49.16%
Various Helena-Frisco Mine Owners	1,007,762	37.65%
American Smelting and Refining Co.	292,567	10.93%
Frisco Mining Co., Limited	60,360	2.26%

Draft Mine Production Report

Morning Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1885	Various Morning Mine Owners	Owner 100.00%	115,765
1886	Various Morning Mine Owners	Owner 100.00%	115,765
1887	Various Morning Mine Owners	Owner 100.00%	115,765
1888	Various Morning Mine Owners	Owner 100.00%	115,766
1889	Various Morning Mine Owners	Owner 100.00%	115,766
1890	Various Morning Mine Owners	Owner 100.00%	115,766
1891	Various Morning Mine Owners	Owner 100.00%	115,766
1892	Various Morning Mine Owners	Owner 100.00%	115,766
1893	Various Morning Mine Owners	Owner 100.00%	115,766
1894	Various Morning Mine Owners	Owner 100.00%	115,766
1895	Various Morning Mine Owners	Owner 100.00%	115,766
1896	Various Morning Mine Owners	Owner 100.00%	115,766
1897	Various Morning Mine Owners	Owner 100.00%	115,766
1898	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1899	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1900	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1901	Larson/Greenough/Kilmer	Owner 100.00%	179,170
1902	Larson/Greenough/Kilmer	Owner 100.00%	209,852
1903	Larson/Greenough/Kilmer	Owner 100.00%	236,410
1904	Larson/Greenough/Kilmer	Owner 100.00%	235,775
1905	Federal Mining & Smelting	Owner 100.00%	262,734
1906	Federal Mining & Smelting	Owner 100.00%	338,720
1907	Federal Mining & Smelting	Owner 100.00%	297,500
1908	Federal Mining & Smelting	Owner 100.00%	189,975
1909	Federal Mining & Smelting	Owner 100.00%	360,204
1910	Federal Mining & Smelting	Owner 100.00%	335,816
1911	Federal Mining & Smelting	Owner 100.00%	384,600
1912	Federal Mining & Smelting	Owner 100.00%	402,600
1913	Federal Mining & Smelting	Owner 100.00%	387,932
1914	Federal Mining & Smelting	Owner 100.00%	202,400
1915	Federal Mining & Smelting	Owner 100.00%	250,260
1916	Federal Mining & Smelting	Owner 100.00%	444,932
1917	Federal Mining & Smelting	Owner 100.00%	437,744
1918	Federal Mining & Smelting	Owner 100.00%	250,299
1919	Federal Mining & Smelting	Owner 100.00%	161,362
1920	Federal Mining & Smelting	Owner 100.00%	292,835
1921	Federal Mining & Smelting	Owner 100.00%	328,247
1922	Federal Mining & Smelting	Owner 100.00%	295,886
1923	Federal Mining & Smelting	Owner 100.00%	295,499
1924	Federal Mining & Smelting	Owner 100.00%	339,717
1925	Federal Mining & Smelting	Owner 100.00%	393,416
1926	Federal Mining & Smelting	Owner 100.00%	413,896
1927	Federal Mining & Smelting	Owner 100.00%	398,412
1928	Federal Mining & Smelting	Owner 100.00%	397,927

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1929	Federal Mining & Smelting	Owner	100.00%	386,210
1931	Federal Mining & Smelting	Owner	100.00%	232,485
1932	Federal Mining & Smelting	Owner	100.00%	102,407
1933	Federal Mining & Smelting	Owner	100.00%	197,257
1934	Federal Mining & Smelting	Owner	100.00%	220,037
1935	Federal Mining & Smelting	Owner	100.00%	298,568
1936	Federal Mining & Smelting	Owner	100.00%	314,772
1937	Federal Mining & Smelting	Owner	100.00%	351,742
1938	Federal Mining & Smelting	Owner	100.00%	262,950
1939	Federal Mining & Smelting	Owner	100.00%	377,723
1940	Federal Mining & Smelting	Owner	100.00%	336,960
1941	Federal Mining & Smelting	Owner	100.00%	271,137
1942	Federal Mining & Smelting	Owner	100.00%	236,902
1943	Federal Mining & Smelting	Owner	100.00%	234,667
1944	Federal Mining & Smelting	Owner	100.00%	276,769
1945	Federal Mining & Smelting	Owner	100.00%	250,311
1946	Federal Mining & Smelting	Owner	100.00%	145,497
1947	Federal Mining & Smelting	Owner	100.00%	108,729
1948	Federal Mining & Smelting	Owner	100.00%	77,061
1949	Federal Mining & Smelting	Owner	100.00%	87,853
1950	Federal Mining & Smelting	Owner	100.00%	108,189
1951	Federal Mining & Smelting	Owner	100.00%	88,817
1952	Federal Mining & Smelting	Owner	100.00%	83,104
1953	American Smelting and Refining Co.	Owner	100.00%	96,010
1954	American Smelting and Refining Co.	Owner	100.00%	49,468
1955	American Smelting and Refining Co.	Owner	100.00%	41,888
1956	American Smelting and Refining Co.	Owner	100.00%	45,995
1957	American Smelting and Refining Co.	Owner	100.00%	36,919
1958	American Smelting and Refining Co.	Owner	100.00%	10,864
1960	American Smelting and Refining Co.	Owner	100.00%	17
1961	Bunker Hill & S.M. & C. Co.	Owner	70.00%	84
	Hecla Mining Co.	Operator	30.00%	36
1962	Bunker Hill & S.M. & C. Co.	Owner	70.00%	14,473
	Hecla Mining Co.	Operator	30.00%	6,203
1963	Bunker Hill & S.M. & C. Co.	Owner	70.00%	37,486
	Hecla Mining Co.	Operator	30.00%	16,065
1964	Bunker Hill & S.M. & C. Co.	Owner	70.00%	73,388
	Hecla Mining Co.	Operator	30.00%	31,452
1965	Bunker Hill & S.M. & C. Co.	Owner	70.00%	89,662
	Hecla Mining Co.	Operator	30.00%	38,427
1966	Bunker Hill & S.M. & C. Co.	Operator	70.00%	105,071
	Hecla Mining Co.	Owner	30.00%	45,030
1967	Bunker Hill & S.M. & C. Co.	Operator	70.00%	85,074
	Hecla Mining Co.	Owner	30.00%	36,460
1968	Bunker Hill & S.M. & C. Co.	Operator	70.00%	63,095
	Hecla Mining Co.	Owner	30.00%	27,041
1969	Bunker Hill & S.M. & C. Co.	Operator	70.00%	61,016
	Hecla Mining Co.	Owner	30.00%	26,150
1970	Bunker Hill & S.M. & C. Co.	Operator	70.00%	89,338
	Hecla Mining Co.	Owner	30.00%	38,288
1971	Bunker Hill & S.M. & C. Co.	Operator	70.00%	114,225
	Hecla Mining Co.	Owner	30.00%	48,953

1972	Bunker Hill & S.M. & C. Co.	Operator	70.00%	132,870
	Hecla Mining Co.	Owner	30.00%	56,944
1973	Bunker Hill & S.M. & C. Co.	Operator	70.00%	140,822
	Hecla Mining Co.	Owner	30.00%	60,352
1974	Bunker Hill & S.M. & C. Co.	Operator	70.00%	137,354
	Hecla Mining Co.	Owner	30.00%	58,866
1975	Bunker Hill & S.M. & C. Co.	Operator	70.00%	136,339
	Hecla Mining Co.	Owner	30.00%	58,431
1976	Bunker Hill & S.M. & C. Co.	Operator	70.00%	159,297
	Hecla Mining Co.	Owner	30.00%	68,270
1977	Bunker Hill & S.M. & C. Co.	Operator	70.00%	158,709
	Hecla Mining Co.	Owner	30.00%	68,018
1978	Bunker Hill & S.M. & C. Co.	Operator	70.00%	160,444
	Hecla Mining Co.	Owner	30.00%	68,762
1979	Bunker Hill & S.M. & C. Co.	Operator	70.00%	148,107
	Hecla Mining Co.	Owner	30.00%	63,475

Total Short Tons of Mined Ore: 18,631,758

**Total Short Tons from this mine
according to Bennett and Mitchell:** 18,631,754

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Federal Mining & Smelting	12,913,060	69.31%
Bunker Hill & S.M. & C. Co.	1,906,854	10.23%
Various Morning Mine Owners	1,504,955	8.08%
Larson/Greenough/Kilmer	1,208,505	6.49%
Hecla Mining Co.	817,223	4.39%
American Smelting and Refining Co.	281,161	1.51%

Draft Mine Production Report

Page Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Federal Mining & Smelting	Owner 100.00%	4,514
1927	Federal Mining & Smelting	Owner 100.00%	64,739
1928	Federal Mining & Smelting	Owner 100.00%	84,023
1929	Federal Mining & Smelting	Owner 100.00%	86,027
1930	Federal Mining & Smelting	Owner 100.00%	74,744
1931	Federal Mining & Smelting	Owner 100.00%	41,134
1932	Federal Mining & Smelting	Owner 100.00%	19,174
1933	Federal Mining & Smelting	Owner 100.00%	21,868
1934	Federal Mining & Smelting	Owner 100.00%	41,394
1935	Federal Mining & Smelting	Owner 100.00%	58,972
1936	Federal Mining & Smelting	Owner 100.00%	71,100
1937	Federal Mining & Smelting	Owner 100.00%	72,628
1938	Federal Mining & Smelting	Owner 100.00%	71,508
1939	Federal Mining & Smelting	Owner 100.00%	71,852
1940	Federal Mining & Smelting	Owner 100.00%	88,660
1941	Federal Mining & Smelting	Owner 100.00%	102,350
1942	Federal Mining & Smelting	Owner 100.00%	139,848
1943	Federal Mining & Smelting	Owner 100.00%	141,460
1944	Federal Mining & Smelting	Owner 100.00%	116,976
1945	Federal Mining & Smelting	Owner 100.00%	80,727
1946	Federal Mining & Smelting	Owner 100.00%	102,875
1947	Federal Mining & Smelting	Owner 100.00%	129,276
1948	Federal Mining & Smelting	Owner 100.00%	158,179
1949	Federal Mining & Smelting	Owner 100.00%	154,230
1950	Federal Mining & Smelting	Owner 100.00%	159,663
1951	Federal Mining & Smelting	Owner 100.00%	130,181
1952	Federal Mining & Smelting	Owner 100.00%	139,973
1953	American Smelting and Refining Co.	Owner 100.00%	153,718
1954	American Smelting and Refining Co.	Owner 100.00%	132,656
1955	American Smelting and Refining Co.	Owner 100.00%	76,831
1956	American Smelting and Refining Co.	Owner 100.00%	109,586
1957	American Smelting and Refining Co.	Owner 100.00%	128,751
1958	American Smelting and Refining Co.	Owner 100.00%	117,411
1959	American Smelting and Refining Co.	Owner 100.00%	111,405
1960	American Smelting and Refining Co.	Owner 100.00%	46,369
1961	American Smelting and Refining Co.	Owner 100.00%	117,592
1962	American Smelting and Refining Co.	Owner 100.00%	118,520
1963	American Smelting and Refining Co.	Owner 100.00%	126,041
1964	American Smelting and Refining Co.	Owner 100.00%	130,937
1965	American Smelting and Refining Co.	Owner 100.00%	130,082
1966	American Smelting and Refining Co.	Owner 100.00%	130,275
1967	American Smelting and Refining Co.	Owner 100.00%	70,808
1968	American Smelting and Refining Co.	Owner 100.00%	86,744
1969	American Smelting and Refining Co.	Owner 100.00%	91,464

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Total Short Tons of Mined Ore:	4,307,265
Total Short Tons from this mine according to Bennett and Mitchell:	4,307,335

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	2,428,075	56.37%
American Smelting and Refining Co.	1,879,190	43.63%

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Draft Mine Production Report

Standard-Mammoth Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1887	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1888	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1889	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1890	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1891	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1892	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1893	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1894	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1895	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1896	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1897	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1898	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,964
1899	Various Standard-Mammoth Mine Owners	Owner	100.00%	58,965
1900	Federal Mining & Smelting	Owner	100.00%	58,965
1901	Federal Mining & Smelting	Owner	100.00%	141,107
1902	Federal Mining & Smelting	Owner	100.00%	231,699
1903	Federal Mining & Smelting	Owner	100.00%	365,908
1904	Federal Mining & Smelting	Owner	100.00%	383,788
1905	Federal Mining & Smelting	Owner	100.00%	398,867
1906	Federal Mining & Smelting	Owner	100.00%	335,212
1907	Federal Mining & Smelting	Owner	100.00%	243,900
1908	Federal Mining & Smelting	Owner	100.00%	322,559
1909	Federal Mining & Smelting	Owner	100.00%	264,152
1910	Federal Mining & Smelting	Owner	100.00%	201,350
1911	Federal Mining & Smelting	Owner	100.00%	225,400
1912	Federal Mining & Smelting	Owner	50.00%	77,460
	Greenhill-Cleveland Mining Co.	Operator	50.00%	77,460
1913	Federal Mining & Smelting	Owner	50.00%	68
	Greenhill-Cleveland Mining Co.	Operator	50.00%	68
1914	Federal Mining & Smelting	Owner	50.00%	16
	Greenhill-Cleveland Mining Co.	Operator	50.00%	16
1915	Federal Mining & Smelting	Owner	50.00%	50
	Greenhill-Cleveland Mining Co.	Operator	50.00%	50
1916	Federal Mining & Smelting	Owner	100.00%	88
1917	Federal Mining & Smelting	Owner	100.00%	635
1918	Federal Mining & Smelting	Owner	100.00%	882
1919	Federal Mining & Smelting	Owner	100.00%	2,423
1920	Federal Mining & Smelting	Owner	100.00%	2,955
1921	Federal Mining & Smelting	Owner	100.00%	1,364
1922	Federal Mining & Smelting	Owner	100.00%	1,696
1923	Federal Mining & Smelting	Owner	100.00%	1,831
1924	Federal Mining & Smelting	Owner	100.00%	1,672
1925	Federal Mining & Smelting	Owner	100.00%	1,264
1926	Federal Mining & Smelting	Owner	100.00%	950

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1927	Federal Mining & Smelting	Owner	100.00%	617
1928	Federal Mining & Smelting	Owner	100.00%	1,044
1929	Federal Mining & Smelting	Owner	100.00%	608
1930	Federal Mining & Smelting	Owner	100.00%	237
1931	Federal Mining & Smelting	Owner	100.00%	101
1932	Federal Mining & Smelting	Owner	100.00%	146
1933	Federal Mining & Smelting	Owner	100.00%	96
1934	Federal Mining & Smelting	Owner	100.00%	96
1935	Federal Mining & Smelting	Owner	100.00%	69
1936	Federal Mining & Smelting	Owner	100.00%	335
1937	Federal Mining & Smelting	Owner	100.00%	144
1938	Federal Mining & Smelting	Owner	100.00%	23
1939	Federal Mining & Smelting	Owner	100.00%	1,100
1940	Federal Mining & Smelting	Owner	100.00%	6,128
1941	Federal Mining & Smelting	Owner	100.00%	293
1942	Federal Mining & Smelting	Owner	100.00%	154
1943	Federal Mining & Smelting	Owner	100.00%	106
1944	Federal Mining & Smelting	Owner	100.00%	2
1945	Federal Mining & Smelting	Owner	100.00%	130
1946	Federal Mining & Smelting	Owner	100.00%	884
1947	Federal Mining & Smelting	Owner	100.00%	2,421
1948	Federal Mining & Smelting	Owner	100.00%	2,287
1949	Federal Mining & Smelting	Owner	100.00%	481
1950	Federal Mining & Smelting	Owner	100.00%	765
1951	Federal Mining & Smelting	Owner	100.00%	878
1952	Federal Mining & Smelting	Owner	100.00%	248
1965	ASARCO	Owner	100.00%	23

Total Short Tons of Mined Ore: 4,129,801

**Total Short Tons from this mine
according to Bennett and Mitchell:** 3,763,893

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Federal Mining & Smelting	3,285,653 79.56%
Various Standard-Mammoth Mine Owners	766,533 18.56%
Greenhill-Cleveland Mining Co.	77,593 1.88%
ASARCO	23 0.00%

BLACKHAWK

Draft Defendant Company Report

Blackhawk Mining & Development Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
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Black Hawk	1916 — 1944	214,126
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Total Tons of Mined Ore:	214,126
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Total Tons Mined in the CDA Basin from 1884 - 1980:	83,816,527
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Percent of CDA Basin Total:	0.26%
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The above defendant company is successor in interest to the following owner / operators:

Blackhawk Mining & Development Company

Draft Mine Production Report

Black Hawk Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Blackhawk Mining & Development Compan	Owner	100.00% 12,256
1917	Blackhawk Mining & Development Compan	Owner	100.00% 12,256
1927	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1928	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1929	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1930	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1931	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1932	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1933	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1934	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
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1938	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1939	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1940	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1941	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1942	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1943	Blackhawk Mining & Development Compan	Owner	100.00% 10,534
1944	Blackhawk Mining & Development Compan	Owner	100.00% 10,536

Total Short Tons of Mined Ore: 214,126

Total Short Tons from this mine
according to Bennett and Mitchell: 214,126

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Blackhawk Mining & Development Company	214,126	100.00%
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CALLAHAN CONSOLIDATED

Draft Defendant Company Report

Callahan Consolidated Mines, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Rex	1942 — 1949	108,750
Total Tons of Mined Ore:		108,750
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.13%

The above defendant company is successor in interest to the following owner / operators:

Callahan Consolidated Mines Co.

Draft Mine Production Report

Rex Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Rex Mining Co.	Owner	100.00% 3,408
1906	Rex Mining Co.	Owner	100.00% 7,255
1908	Rex Mining Co.	Owner	100.00% 2,984
1910	Rex Mining Co.	Owner	100.00% 5,440
1911	Rex Mining Co.	Owner	100.00% 8,204
1912	Rex Mining Co.	Owner	100.00% 34
1913	Rex Mining Co.	Owner	100.00% 11,868
1916	Rex Consolidated Mining Co.	Owner	100.00% 5,971
1917	Rex Consolidated Mining Co.	Owner	100.00% 32,116
1918	Rex Consolidated Mining Co.	Owner	100.00% 1,211
1919	Rex Consolidated Mining Co.	Owner	100.00% 106
1920	Rex Consolidated Mining Co.	Owner	100.00% 203
1921	Rex Consolidated Mining Co.	Owner	100.00% 53
1922	Rex Consolidated Mining Co.	Owner	100.00% 16
1923	Rex Consolidated Mining Co.	Owner	100.00% 29
1925	Rex Consolidated Mining Co.	Owner	100.00% 237
1926	Delaware Mines Corp.	Owner	100.00% 52
1927	Delaware Mines Corp.	Owner	100.00% 299
1928	Delaware Mines Corp.	Owner	100.00% 390
1929	Delaware Mines Corp.	Owner	100.00% 225
1930	Delaware Mines Corp.	Owner	100.00% 98
1942	Callahan Consolidated Mines Co.	Operator	50.00% 65
	Delaware Mines Corp.	Owner	50.00% 65
1943	Callahan Consolidated Mines Co.	Owner	100.00% 11,820
1944	Callahan Consolidated Mines Co.	Owner	100.00% 21,439
1945	Callahan Consolidated Mines Co.	Owner	100.00% 25,308
1946	Callahan Consolidated Mines Co.	Owner	100.00% 15,768
1949	Callahan Consolidated Mines Co.	Owner	100.00% 34,350

Total Short Tons of Mined Ore: 189,014

Total Short Tons from this mine
according to Bennett and Mitchell: 154,441

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Callahan Consolidated Mines Co.	108,750	57.54%
Rex Consolidated Mining Co.	39,942	21.13%
Rex Mining Co.	39,193	20.74%
Delaware Mines Corp.	1,129	0.60%

CALLAHAN MINING

Draft Defendant Company Report

Callahan Mining Corporation

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Interstate/Callahan	1920 — 1944	1,169,452
Coeur Unit	1969 — 1980	52,241
Galena	1958 — 1980	1,789,348
Total Tons of Mined Ore:		3,011,041
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		3.59%

The above defendant company is successor in interest to the following owner / operators:

Callahan Mining Corp.

Callahan Zinc-Lead Co.

Consolidated Callahan Interstate Mining Co.

Vulcan Silver and Lead Co.

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Percentage	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	43.34%	5,319
	Callahan Mining Corp.	Operator	8.33%	1,022
	Coeur d'Alene Mines Corp.	Owner	40.00%	4,909
	Day Mines, Inc.	Operator	8.33%	1,022
1974	American Smelting and Refining Co.	Operator	43.34%	1,950
	Callahan Mining Corp.	Operator	8.33%	375
	Coeur d'Alene Mines Corp.	Owner	40.00%	1,800
	Day Mines, Inc.	Operator	8.33%	375
1976	American Smelting and Refining Co.	Operator	43.34%	51,383
	Callahan Mining Corp.	Operator	8.33%	9,876
	Coeur d'Alene Mines Corp.	Owner	40.00%	47,423
	Day Mines, Inc.	Operator	8.33%	9,876
1977	American Smelting and Refining Co.	Operator	43.34%	63,677
	Callahan Mining Corp.	Operator	8.33%	12,239
	Coeur d'Alene Mines Corp.	Owner	40.00%	58,770
	Day Mines, Inc.	Operator	8.33%	12,239
1978	American Smelting and Refining Co.	Operator	43.34%	65,872
	Callahan Mining Corp.	Operator	8.33%	12,661
	Coeur d'Alene Mines Corp.	Owner	40.00%	60,796
	Day Mines, Inc.	Operator	8.33%	12,661
1979	American Smelting and Refining Co.	Owner	50.00%	78,206
	Callahan Mining Corp.	Operator	5.00%	7,821
	Coeur d'Alene Mines Corp.	Operator	40.00%	62,564
	Day Mines, Inc.	Operator	5.00%	7,821
1980	American Smelting and Refining Co.	Operator	50.00%	82,483
	Callahan Mining Corp.	Operator	5.00%	8,248
	Coeur d'Alene Mines Corp.	Owner	40.00%	65,986
	Day Mines, Inc.	Operator	5.00%	8,248
Total Short Tons of Mined Ore:				755,620
Total Short Tons from this mine according to Bennett and Mitchell:				755,618

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
American Smelting and Refining Co.	348,889	46.17%
Coeur d'Alene Mines Corp.	302,248	40.00%
Day Mines, Inc.	52,241	6.91%
Callahan Mining Corp.	52,241	6.91%

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner	100.00% 91
1926	Callahan Zinc-Lead Co.	Owner	100.00% 8,600
1927	Callahan Zinc-Lead Co.	Owner	100.00% 54,698
1928	Callahan Zinc-Lead Co.	Owner	100.00% 3,429
1929	Callahan Zinc-Lead Co.	Owner	100.00% 21,501
1930	Callahan Zinc-Lead Co.	Owner	100.00% 11,654
1931	Callahan Zinc-Lead Co.	Owner	100.00% 663
1935	Callahan Zinc-Lead Co.	Owner	100.00% 95
1937	Callahan Zinc-Lead Co.	Owner	100.00% 1,300
1938	Callahan Zinc-Lead Co.	Owner	100.00% 79
1950	American Smelting and Refining Co.	Operator	67.50% 1,089
	Day Mines, Inc.	Operator	22.50% 363
	Vulcan Silver and Lead Co.	Owner	10.00% 161
1951	American Smelting and Refining Co.	Operator	67.50% 696
	Day Mines, Inc.	Operator	22.50% 232
	Vulcan Silver and Lead Co.	Owner	10.00% 103
1952	American Smelting and Refining Co.	Operator	67.50% 8,570
	Day Mines, Inc.	Operator	22.50% 2,857
	Vulcan Silver and Lead Co.	Owner	10.00% 1,270
1953	American Smelting and Refining Co.	Operator	67.50% 29,340
	Day Mines, Inc.	Operator	22.50% 9,780
	Vulcan Silver and Lead Co.	Owner	10.00% 4,347
1954	American Smelting and Refining Co.	Operator	67.50% 32,915
	Day Mines, Inc.	Operator	22.50% 10,972
	Vulcan Silver and Lead Co.	Owner	10.00% 4,876
1955	American Smelting and Refining Co.	Operator	67.50% 38,130
	Day Mines, Inc.	Operator	22.50% 12,710
	Vulcan Silver and Lead Co.	Owner	10.00% 5,649
1956	American Smelting and Refining Co.	Operator	67.50% 59,349
	Day Mines, Inc.	Operator	22.50% 19,783
	Vulcan Silver and Lead Co.	Owner	10.00% 8,793
1957	American Smelting and Refining Co.	Operator	67.50% 83,112
	Day Mines, Inc.	Operator	22.50% 27,704
	Vulcan Silver and Lead Co.	Owner	10.00% 12,313
1958	American Smelting and Refining Co.	Operator	67.50% 80,880
	Callahan Mining Corp.	Owner	10.00% 11,982
	Day Mines, Inc.	Operator	22.50% 26,960
1959	American Smelting and Refining Co.	Operator	37.50% 44,170
	Callahan Mining Corp.	Owner	50.00% 58,893
	Day Mines, Inc.	Operator	12.50% 14,723
1960	American Smelting and Refining Co.	Operator	37.50% 18,261
	Callahan Mining Corp.	Owner	50.00% 24,348
	Day Mines, Inc.	Operator	12.50% 6,087
1961	American Smelting and Refining Co.	Operator	37.50% 44,769

11/14/97

1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794

Total Short Tons of Mined Ore:	3,872,535
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Total Short Tons from this mine according to Bennett and Mitchell:	3,872,524
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	116
1907	Various Interstate-Callahan Mine Owners	Owner	391
1908	Various Interstate-Callahan Mine Owners	Owner	223
1909	Various Interstate-Callahan Mine Owners	Owner	297
1910	Various Interstate-Callahan Mine Owners	Owner	195
1913	Consolidated Callahan Interstate Mining Co.	Owner	43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	54,135
1920	Callahan Zinc-Lead Co.	Owner	129,833
1922	Callahan Zinc-Lead Co.	Owner	20,516
1923	Callahan Zinc-Lead Co.	Owner	114,179
1924	Callahan Zinc-Lead Co.	Owner	24
1937	Callahan Zinc-Lead Co.	Owner	16,950
1938	Callahan Zinc-Lead Co.	Owner	3,900
1939	Callahan Zinc-Lead Co.	Owner	3,200
1940	Callahan Zinc-Lead Co.	Owner	17,616
1941	Callahan Zinc-Lead Co.	Owner	46,000
1942	Callahan Zinc-Lead Co.	Owner	46,870
1943	Callahan Zinc-Lead Co.	Owner	25,100
1944	Callahan Zinc-Lead Co.	Owner	8,230
1945	Monitor Mining Co.	Owner	10,070
1946	Monitor Mining Co.	Owner	3,859
1948	Day Mines, Inc.	Owner	21,634
1949	Day Mines, Inc.	Owner	16,672
1950	Day Mines, Inc.	Owner	3,893
	Zanetti Bros.	Operator	3,893
1951	Day Mines, Inc.	Owner	7,185
1961	Day Mines, Inc.	Owner	2,025
	Zanetti Bros.	Operator	2,025
1962	Day Mines, Inc.	Owner	28,000
	Zanetti Bros.	Operator	28,000
1971	Day Mines, Inc.	Owner	18,751
1972	Day Mines, Inc.	Owner	20,259
1973	Day Mines, Inc.	Owner	20,674
1974	Day Mines, Inc.	Owner	22,118
1975	Day Mines, Inc.	Owner	19,533
1976	Day Mines, Inc.	Owner	21,027
1977	Day Mines, Inc.	Owner	3,328

Total Short Tons of Mined Ore:	1,423,619
Total Short Tons from this mine according to Bennett and Mitchell:	1,423,619

Total Short Tons of Mined Ore per Owner/Operator:		Percentage of This Mine's Ore:
Consolidated Callahan Interstate Mining Co.	737,034	51.77%
Callahan Zinc-Lead Co.	432,418	30.37%
Day Mines, Inc.	205,099	14.41%
Zanetti Bros.	33,918	2.38%
Monitor Mining Co.	13,929	0.98%
Various Interstate-Callahan Mine Owners	1,222	0.09%

COEUR D'ALENE MINES

Draft Defendant Company Report

Coeur d'Alene Mines Corporation

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Coeur Unit	1969 — 1980	302,248
Mineral Point	1938 — 1952	439,769
Rainbow	1957 — 1958	12,591
Total Tons of Mined Ore:		754,608
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.90%

The above defendant company is successor in interest to the following owner / operators:

Coeur d'Alene Mines Corp.

Mineral Point Mining Co.

Rainbow Mining and Milling Co.

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1974	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1976	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1977	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1978	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1979	American Smelting and Refining Co.	Owner	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Operator	40.00%
	Day Mines, Inc.	Operator	5.00%
1980	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
Total Short Tons of Mined Ore:			755,620
Total Short Tons from this mine according to Bennett and Mitchell:			755,618

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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American Smelting and Refining Co.	348,889	46.17%
Coeur d'Alene Mines Corp.	302,248	40.00%
Day Mines, Inc.	52,241	6.91%
Callahan Mining Corp.	52,241	6.91%

Draft Mine Production Report

Mineral Point Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1919	Mineral Point Mining Co.	Owner	100.00% 26
1920	Mineral Point Mining Co.	Owner	100.00% 21
1921	Mineral Point Mining Co.	Owner	100.00% 5
1922	Mineral Point Mining Co.	Owner	100.00% 8
1938	Coeur d'Alene Mines Corp.	Owner	100.00% 1,220
1939	Coeur d'Alene Mines Corp.	Owner	100.00% 17,502
1940	Coeur d'Alene Mines Corp.	Owner	100.00% 51,812
1941	Coeur d'Alene Mines Corp.	Owner	100.00% 87,672
1942	Coeur d'Alene Mines Corp.	Owner	100.00% 122,301
1943	Coeur d'Alene Mines Corp.	Owner	100.00% 78,753
1944	Coeur d'Alene Mines Corp.	Owner	100.00% 25,337
1945	Coeur d'Alene Mines Corp.	Owner	100.00% 12,455
1946	Coeur d'Alene Mines Corp.	Owner	100.00% 8,193
1947	Coeur d'Alene Mines Corp.	Owner	100.00% 18,198
1948	Coeur d'Alene Mines Corp.	Owner	100.00% 5,257
1949	Coeur d'Alene Mines Corp.	Owner	100.00% 1,562
1950	Coeur d'Alene Mines Corp.	Owner	50.00% 1,010
	Zanetti Bros.	Operator	50.00% 1,010
1951	Coeur d'Alene Mines Corp.	Owner	100.00% 7,682
1952	Coeur d'Alene Mines Corp.	Owner	100.00% 755
Total Short Tons of Mined Ore:			440,779
Total Short Tons from this mine according to Bennett and Mitchell:			440,779

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Coeur d'Alene Mines Corp.	439,709 99.76%
Zanetti Bros.	1,010 0.23%
Mineral Point Mining Co.	60 0.01%

Draft Mine Production Report

Rainbow Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1957	Polaris Mining Co.	Operator	8,798
	Rainbow Mining and Milling Co.	Owner	8,798
1958	Hecla Mining Co.	Operator	3,793
	Rainbow Mining and Milling Co.	Owner	3,793
Total Short Tons of Mined Ore:			25,182
Total Short Tons from this mine according to Bennett and Mitchell:			7,582

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Rainbow Mining and Milling Co.	12,591	50.00%
Polaris Mining Co.	8,798	34.94%
Hecla Mining Co.	3,793	15.06%

CONSTITUTION

Draft Defendant Company Report

Constitution Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Constitution	1924 — 1930	667,321
Douglas	1951 — 1955	17,108
Total Tons of Mined Ore:		684,429
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.82%

The above defendant company is successor in interest to the following owner / operators:

Constitution Mining and Milling Co.

Constitution Mining Co.

Spokane-Idaho Mining Co.

Various Constitution Mine Owners

Draft Mine Production Report

Constitution Mine

Drainage: Pine Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1915	Various Constitution Mine Owners	Owner	100.00%	360
1916	Various Constitution Mine Owners	Owner	100.00%	1,037
1917	Various Constitution Mine Owners	Owner	100.00%	5,904
1918	Various Constitution Mine Owners	Owner	100.00%	207
1924	Constitution Mining and Milling Co.	Owner	100.00%	12,068
1925	Constitution Mining and Milling Co.	Owner	100.00%	31,319
1926	Constitution Mining and Milling Co.	Owner	100.00%	49,554
1927	Constitution Mining and Milling Co.	Owner	100.00%	33,159
1928	Constitution Mining and Milling Co.	Owner	100.00%	4,286
1929	Constitution Mining and Milling Co.	Owner	100.00%	12,386
1930	Constitution Mining and Milling Co.	Owner	100.00%	23,970
1941	Spokane-Idaho Mining Co.	Owner	100.00%	6,973
1942	Spokane-Idaho Mining Co.	Owner	100.00%	20,307
1943	Spokane-Idaho Mining Co.	Owner	100.00%	21,498
1944	Spokane-Idaho Mining Co.	Owner	100.00%	22,146
1945	Spokane-Idaho Mining Co.	Owner	100.00%	26,151
1946	Spokane-Idaho Mining Co.	Owner	100.00%	36,715
1947	Spokane-Idaho Mining Co.	Owner	100.00%	38,468
1948	Spokane-Idaho Mining Co.	Owner	100.00%	54,917
1949	Spokane-Idaho Mining Co.	Owner	100.00%	50,623
1950	Spokane-Idaho Mining Co.	Owner	100.00%	61,402
1951	Spokane-Idaho Mining Co.	Owner	100.00%	62,692
1952	Spokane-Idaho Mining Co.	Owner	100.00%	48,806
1953	Spokane-Idaho Mining Co.	Owner	100.00%	21,661
1954	Spokane-Idaho Mining Co.	Owner	100.00%	13,264
1955	Spokane-Idaho Mining Co.	Owner	100.00%	6,933
1956	Spokane-Idaho Mining Co.	Owner	100.00%	225
1957	Spokane-Idaho Mining Co.	Owner	100.00%	150
1968	Constitution Mining Co.	Owner	100.00%	140

Total Short Tons of Mined Ore: 667,321

**Total Short Tons from this mine
according to Bennett and Mitchell:** 667,326

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
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Spokane-Idaho Mining Co.	492,931	73.87%
Constitution Mining and Milling Co.	166,742	24.99%
Various Constitution Mine Owners	7,508	1.13%
Constitution Mining Co.	140	0.02%

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Anaconda Co.	Operator	50.00% 160
	Douglas Mining Co., Ltd.	Owner	50.00% 160
1917	Anaconda Co.	Operator	50.00% 3,616
	Douglas Mining Co., Ltd.	Owner	50.00% 3,616
1918	Anaconda Co.	Operator	50.00% 213
	Douglas Mining Co., Ltd.	Owner	50.00% 213
1925	Douglas Mining Co., Ltd.	Owner	100.00% 121
1926	Douglas Mining Co., Ltd.	Owner	100.00% 3,458
1927	Douglas Mining Co., Ltd.	Owner	100.00% 1,681
1929	Douglas Mining Co., Ltd.	Owner	100.00% 318
1936	Douglas Mining Co., Ltd.	Owner	100.00% 77
1942	Douglas Mining Co., Ltd.	Owner	100.00% 7,500
1943	Douglas Mining Co., Ltd.	Owner	100.00% 12,789
1944	Douglas Mining Co., Ltd.	Owner	100.00% 23,608
1945	Douglas Mining Co., Ltd.	Owner	100.00% 19,116
1946	Douglas Mining Co., Ltd.	Owner	100.00% 15,112
1947	Douglas Mining Co., Ltd.	Owner	100.00% 15,536
1948	Douglas Mining Co., Ltd.	Owner	100.00% 17,740
1949	Douglas Mining Co., Ltd.	Owner	100.00% 8,134
1951	Douglas Mining Co.	Owner	50.00% 75
	Spokane-Idaho Mining Co.	Operator	50.00% 75
1952	Douglas Mining Co.	Owner	50.00% 5,130
	Spokane-Idaho Mining Co.	Operator	50.00% 5,130
1953	Douglas Mining Co.	Owner	50.00% 5,814
	Spokane-Idaho Mining Co.	Operator	50.00% 5,814
1954	Douglas Mining Co.	Owner	50.00% 4,151
	Spokane-Idaho Mining Co.	Operator	50.00% 4,151
1955	Douglas Mining Co.	Owner	50.00% 1,939
	Spokane-Idaho Mining Co.	Operator	50.00% 1,939
1956	Douglas Mining Co.	Owner	100.00% 24
1958	Douglas Mining Co.	Owner	100.00% 259
1967	Douglas Mining Co.	Owner	100.00% 408
1968	Douglas Mining Co.	Owner	100.00% 572
1969	Douglas Mining Co.	Owner	100.00% 178
1970	Douglas Mining Co.	Owner	100.00% 153
1971	Douglas Mining Co.	Owner	100.00% 161
1972	Douglas Mining Co.	Owner	100.00% 26

Total Short Tons of Mined Ore:	169,162
Total Short Tons from this mine according to Bennett and Mitchell:	167,162

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Douglas Mining Co., Ltd.	129,178 76.36%
Douglas Mining Co.	18,889 11.17%
Spokane-Idaho Mining Co.	17,108 10.11%
Anaconda Co.	3,988 2.36%

DOUGLAS

Draft Defendant Company Report

Douglas Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
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Douglas	1951 — 1972	148,067
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Total Tons of Mined Ore:	148,067
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Total Tons Mined in the CDA Basin from 1884 - 1980:	83,816,527
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Percent of CDA Basin Total:	0.18%
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The above defendant company is successor in interest to the following owner / operators:

Douglas Mining Co.

Douglas Mining Co., Ltd.

Draft Mine Production Report

Douglas Mine

Drainage: Pine Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1916	Anaconda Co.	Operator	50.00%	160
	Douglas Mining Co., Ltd.	Owner	50.00%	160
1917	Anaconda Co.	Operator	50.00%	3,616
	Douglas Mining Co., Ltd.	Owner	50.00%	3,616
1918	Anaconda Co.	Operator	50.00%	213
	Douglas Mining Co., Ltd.	Owner	50.00%	213
1925	Douglas Mining Co., Ltd.	Owner	100.00%	121
1926	Douglas Mining Co., Ltd.	Owner	100.00%	3,458
1927	Douglas Mining Co., Ltd.	Owner	100.00%	1,681
1929	Douglas Mining Co., Ltd.	Owner	100.00%	318
1936	Douglas Mining Co., Ltd.	Owner	100.00%	77
1942	Douglas Mining Co., Ltd.	Owner	100.00%	7,500
1943	Douglas Mining Co., Ltd.	Owner	100.00%	12,789
1944	Douglas Mining Co., Ltd.	Owner	100.00%	23,608
1945	Douglas Mining Co., Ltd.	Owner	100.00%	19,116
1946	Douglas Mining Co., Ltd.	Owner	100.00%	15,112
1947	Douglas Mining Co., Ltd.	Owner	100.00%	15,536
1948	Douglas Mining Co., Ltd.	Owner	100.00%	17,740
1949	Douglas Mining Co., Ltd.	Owner	100.00%	8,134
1951	Douglas Mining Co.	Owner	50.00%	75
	Spokane-Idaho Mining Co.	Operator	50.00%	75
1952	Douglas Mining Co.	Owner	50.00%	5,130
	Spokane-Idaho Mining Co.	Operator	50.00%	5,130
1953	Douglas Mining Co.	Owner	50.00%	5,814
	Spokane-Idaho Mining Co.	Operator	50.00%	5,814
1954	Douglas Mining Co.	Owner	50.00%	4,151
	Spokane-Idaho Mining Co.	Operator	50.00%	4,151
1955	Douglas Mining Co.	Owner	50.00%	1,939
	Spokane-Idaho Mining Co.	Operator	50.00%	1,939
1956	Douglas Mining Co.	Owner	100.00%	24
1958	Douglas Mining Co.	Owner	100.00%	259
1967	Douglas Mining Co.	Owner	100.00%	408
1968	Douglas Mining Co.	Owner	100.00%	572
1969	Douglas Mining Co.	Owner	100.00%	178
1970	Douglas Mining Co.	Owner	100.00%	153
1971	Douglas Mining Co.	Owner	100.00%	161
1972	Douglas Mining Co.	Owner	100.00%	26

Total Short Tons of Mined Ore:	169,162
Total Short Tons from this mine according to Bennett and Mitchell:	167,162

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Douglas Mining Co., Ltd.	129,178 76.36%
Douglas Mining Co.	18,889 11.17%
Spokane-Idaho Mining Co.	17,108 10.11%
Anaconda Co.	3,988 2.36%

FEDERAL MINING

Draft Defendant Company Report

Federal Mining and Smelting Co.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Greenhill-Cleveland	1903 — 1903	398,657
Helena-Frisco	1913 — 1952	1,315,690
Standard-Mammoth	1900 — 1952	3,285,653
Tiger-Poorman	1903 — 1919	687,944
Morning	1905 — 1952	12,913,060
Wyoming	1916 — 1919	2,774
Last Chance Gulch	1903 — 1918	2,845,356
Page	1926 — 1952	2,428,075
Total Tons of Mined Ore:		23,877,208
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		28.49%

The above defendant company is successor in interest to the following owner / operators:

Federal Mining & Smelting
Various Greenhill-Cleveland Mine Owners
Various Last Chance Mine Owners
Various Wyoming Mine Owners
Wyoming Mining and Milling Co., Ltd.

Draft Mine Production Report

Greenhill-Cleveland Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1903	Various Greenhill-Cleveland Mine Owners	Owner 100.00%	8,400
1912	Federal Mining & Smelting	Owner 50.00%	17,494
	Greenhill-Cleveland Mining Co.	Operator 50.00%	17,494
1913	Federal Mining & Smelting	Owner 50.00%	86,923
	Greenhill-Cleveland Mining Co.	Operator 50.00%	86,923
1914	Federal Mining & Smelting	Owner 50.00%	84,139
	Greenhill-Cleveland Mining Co.	Operator 50.00%	84,139
1915	Federal Mining & Smelting	Owner 50.00%	73,419
	Greenhill-Cleveland Mining Co.	Operator 50.00%	73,419
1916	Federal Mining & Smelting	Owner 50.00%	80,498
	Greenhill-Cleveland Mining Co.	Operator 50.00%	80,498
1917	Federal Mining & Smelting	Owner 50.00%	47,358
	Greenhill-Cleveland Mining Co.	Operator 50.00%	47,358
1918	Federal Mining & Smelting	Owner 50.00%	426
	Greenhill-Cleveland Mining Co.	Operator 50.00%	426

Total Short Tons of Mined Ore: 788,913

Total Short Tons from this mine
according to Bennett and Mitchell: 791,447

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Greenhill-Cleveland Mining Co.	390,257	49.47%
Federal Mining & Smelting	390,257	49.47%
Various Greenhill-Cleveland Mine Owners	8,400	1.06%

Draft Mine Production Report

Helena-Frisco Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1897	Various Helena-Frisco Mine Owners	Owner 100.00%	66,363
1898	Various Helena-Frisco Mine Owners	Owner 100.00%	186,177
1899	Various Helena-Frisco Mine Owners	Owner 100.00%	401,468
1900	Various Helena-Frisco Mine Owners	Owner 100.00%	188,598
1901	Various Helena-Frisco Mine Owners	Owner 100.00%	40,728
1902	Various Helena-Frisco Mine Owners	Owner 100.00%	18,858
1903	Various Helena-Frisco Mine Owners	Owner 100.00%	90,600
1904	Various Helena-Frisco Mine Owners	Owner 100.00%	14,970
1905	Frisco Mining Co., Limited	Owner 100.00%	1,125
1906	Frisco Mining Co., Limited	Owner 100.00%	775
1907	Frisco Mining Co., Limited	Owner 100.00%	55,846
1908	Frisco Mining Co., Limited	Owner 100.00%	1,301
1909	Frisco Mining Co., Limited	Owner 100.00%	695
1910	Frisco Mining Co., Limited	Owner 100.00%	307
1911	Frisco Mining Co., Limited	Owner 100.00%	241
1912	Frisco Mining Co., Limited	Owner 100.00%	70
1913	Federal Mining & Smelting	Owner 100.00%	22
1915	Federal Mining & Smelting	Owner 100.00%	43,513
1916	Federal Mining & Smelting	Owner 100.00%	117,806
1917	Federal Mining & Smelting	Owner 100.00%	1,260
1918	Federal Mining & Smelting	Owner 100.00%	961
1919	Federal Mining & Smelting	Owner 100.00%	1,551
1920	Federal Mining & Smelting	Owner 100.00%	2,636
1921	Federal Mining & Smelting	Owner 100.00%	605
1922	Federal Mining & Smelting	Owner 100.00%	816
1923	Federal Mining & Smelting	Owner 100.00%	675
1924	Federal Mining & Smelting	Owner 100.00%	679
1925	Federal Mining & Smelting	Owner 100.00%	2,056
1926	Federal Mining & Smelting	Owner 100.00%	2,187
1927	Federal Mining & Smelting	Owner 100.00%	30,000
1928	Federal Mining & Smelting	Owner 100.00%	32,600
1929	Federal Mining & Smelting	Owner 100.00%	32,595
1930	Federal Mining & Smelting	Owner 100.00%	5,486
1931	Federal Mining & Smelting	Owner 100.00%	20,958
1932	Federal Mining & Smelting	Owner 100.00%	1,453
1933	Federal Mining & Smelting	Owner 100.00%	37,000
1934	Federal Mining & Smelting	Owner 100.00%	33,000
1935	Federal Mining & Smelting	Owner 100.00%	50,032
1936	Federal Mining & Smelting	Owner 100.00%	35,000
1937	Federal Mining & Smelting	Owner 100.00%	27,460
1938	Federal Mining & Smelting	Owner 100.00%	27,250
1939	Federal Mining & Smelting	Owner 100.00%	23,708
1940	Federal Mining & Smelting	Owner 100.00%	20,758
1941	Federal Mining & Smelting	Owner 100.00%	32,000

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1942	Federal Mining & Smelting	Owner	100.00%	29,837
1943	Federal Mining & Smelting	Owner	100.00%	59,611
1944	Federal Mining & Smelting	Owner	100.00%	54,851
1945	Federal Mining & Smelting	Owner	100.00%	50,863
1946	Federal Mining & Smelting	Owner	100.00%	46,987
1947	Federal Mining & Smelting	Owner	100.00%	67,464
1948	Federal Mining & Smelting	Owner	100.00%	79,831
1949	Federal Mining & Smelting	Owner	100.00%	75,147
1950	Federal Mining & Smelting	Owner	100.00%	106,348
1951	Federal Mining & Smelting	Owner	100.00%	81,767
1952	Federal Mining & Smelting	Owner	100.00%	78,917
1953	American Smelting and Refining Co.	Owner	100.00%	96,656
1954	American Smelting and Refining Co.	Owner	100.00%	81,534
1955	American Smelting and Refining Co.	Owner	100.00%	52,414
1956	American Smelting and Refining Co.	Owner	100.00%	48,856
1957	American Smelting and Refining Co.	Owner	100.00%	5,942
1960	American Smelting and Refining Co.	Owner	100.00%	754
1966	American Smelting and Refining Co.	Owner	100.00%	1,386
1967	American Smelting and Refining Co.	Owner	100.00%	5,025

Total Short Tons of Mined Ore: 2,676,379

**Total Short Tons from this mine
according to Bennett and Mitchell:** 2,676,379

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	1,315,690	49.16%
Various Helena-Frisco Mine Owners	1,007,762	37.65%
American Smelting and Refining Co.	292,567	10.93%
Frisco Mining Co., Limited	60,360	2.26%

Draft Mine Production Report

Last Chance Gulch Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1895	Various Last Chance Mine Owners	Owner	100.00% 118,556
1896	Various Last Chance Mine Owners	Owner	100.00% 118,557
1897	Various Last Chance Mine Owners	Owner	100.00% 118,556
1898	Various Last Chance Mine Owners	Owner	100.00% 118,557
1899	Various Last Chance Mine Owners	Owner	100.00% 118,556
1900	Various Last Chance Mine Owners	Owner	100.00% 118,557
1901	Various Last Chance Mine Owners	Owner	100.00% 118,556
1902	Various Last Chance Mine Owners	Owner	100.00% 118,557
1903	Federal Mining & Smelting	Owner	100.00% 118,556
1904	Federal Mining & Smelting	Owner	100.00% 118,557
1905	Federal Mining & Smelting	Owner	100.00% 118,556
1906	Federal Mining & Smelting	Owner	100.00% 118,557
1907	Federal Mining & Smelting	Owner	100.00% 118,556
1908	Federal Mining & Smelting	Owner	100.00% 118,557
1909	Federal Mining & Smelting	Owner	100.00% 118,556
1910	Federal Mining & Smelting	Owner	100.00% 118,557
1911	Federal Mining & Smelting	Owner	100.00% 118,556
1912	Federal Mining & Smelting	Owner	100.00% 118,557
1913	Federal Mining & Smelting	Owner	100.00% 118,556
1914	Federal Mining & Smelting	Owner	100.00% 118,557
1915	Federal Mining & Smelting	Owner	100.00% 118,556
1916	Federal Mining & Smelting	Owner	100.00% 118,557
1917	Federal Mining & Smelting	Owner	100.00% 118,556
1918	Federal Mining & Smelting	Owner	100.00% 118,557

Total Short Tons of Mined Ore: 2,845,356

Total Short Tons from this mine
according to Bennett and Mitchell: 2,845,356

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	1,896,904	66.67%
Various Last Chance Mine Owners	948,452	33.33%

Draft Mine Production Report

Morning Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1885	Various Morning Mine Owners	Owner	100.00% 115,765
1886	Various Morning Mine Owners	Owner	100.00% 115,765
1887	Various Morning Mine Owners	Owner	100.00% 115,765
1888	Various Morning Mine Owners	Owner	100.00% 115,766
1889	Various Morning Mine Owners	Owner	100.00% 115,766
1890	Various Morning Mine Owners	Owner	100.00% 115,766
1891	Various Morning Mine Owners	Owner	100.00% 115,766
1892	Various Morning Mine Owners	Owner	100.00% 115,766
1893	Various Morning Mine Owners	Owner	100.00% 115,766
1894	Various Morning Mine Owners	Owner	100.00% 115,766
1895	Various Morning Mine Owners	Owner	100.00% 115,766
1896	Various Morning Mine Owners	Owner	100.00% 115,766
1897	Various Morning Mine Owners	Owner	100.00% 115,766
1898	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1899	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1900	Larson/Greenough/Kilmer	Owner	100.00% 115,766
1901	Larson/Greenough/Kilmer	Owner	100.00% 179,170
1902	Larson/Greenough/Kilmer	Owner	100.00% 209,852
1903	Larson/Greenough/Kilmer	Owner	100.00% 236,410
1904	Larson/Greenough/Kilmer	Owner	100.00% 235,775
1905	Federal Mining & Smelting	Owner	100.00% 262,734
1906	Federal Mining & Smelting	Owner	100.00% 338,720
1907	Federal Mining & Smelting	Owner	100.00% 297,500
1908	Federal Mining & Smelting	Owner	100.00% 189,975
1909	Federal Mining & Smelting	Owner	100.00% 360,204
1910	Federal Mining & Smelting	Owner	100.00% 335,816
1911	Federal Mining & Smelting	Owner	100.00% 384,600
1912	Federal Mining & Smelting	Owner	100.00% 402,600
1913	Federal Mining & Smelting	Owner	100.00% 387,932
1914	Federal Mining & Smelting	Owner	100.00% 202,400
1915	Federal Mining & Smelting	Owner	100.00% 250,260
1916	Federal Mining & Smelting	Owner	100.00% 444,932
1917	Federal Mining & Smelting	Owner	100.00% 437,744
1918	Federal Mining & Smelting	Owner	100.00% 250,299
1919	Federal Mining & Smelting	Owner	100.00% 161,362
1920	Federal Mining & Smelting	Owner	100.00% 292,835
1921	Federal Mining & Smelting	Owner	100.00% 328,247
1922	Federal Mining & Smelting	Owner	100.00% 295,886
1923	Federal Mining & Smelting	Owner	100.00% 295,499
1924	Federal Mining & Smelting	Owner	100.00% 339,717
1925	Federal Mining & Smelting	Owner	100.00% 393,416
1926	Federal Mining & Smelting	Owner	100.00% 413,896
1927	Federal Mining & Smelting	Owner	100.00% 398,412
1928	Federal Mining & Smelting	Owner	100.00% 397,927

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1929	Federal Mining & Smelting	Owner	100.00%	386,210
1931	Federal Mining & Smelting	Owner	100.00%	232,485
1932	Federal Mining & Smelting	Owner	100.00%	102,407
1933	Federal Mining & Smelting	Owner	100.00%	197,257
1934	Federal Mining & Smelting	Owner	100.00%	220,037
1935	Federal Mining & Smelting	Owner	100.00%	298,568
1936	Federal Mining & Smelting	Owner	100.00%	314,772
1937	Federal Mining & Smelting	Owner	100.00%	351,742
1938	Federal Mining & Smelting	Owner	100.00%	262,950
1939	Federal Mining & Smelting	Owner	100.00%	377,723
1940	Federal Mining & Smelting	Owner	100.00%	336,960
1941	Federal Mining & Smelting	Owner	100.00%	271,137
1942	Federal Mining & Smelting	Owner	100.00%	236,902
1943	Federal Mining & Smelting	Owner	100.00%	234,667
1944	Federal Mining & Smelting	Owner	100.00%	276,769
1945	Federal Mining & Smelting	Owner	100.00%	250,311
1946	Federal Mining & Smelting	Owner	100.00%	145,497
1947	Federal Mining & Smelting	Owner	100.00%	108,729
1948	Federal Mining & Smelting	Owner	100.00%	77,061
1949	Federal Mining & Smelting	Owner	100.00%	87,853
1950	Federal Mining & Smelting	Owner	100.00%	108,189
1951	Federal Mining & Smelting	Owner	100.00%	88,817
1952	Federal Mining & Smelting	Owner	100.00%	83,104
1953	American Smelting and Refining Co.	Owner	100.00%	96,010
1954	American Smelting and Refining Co.	Owner	100.00%	49,468
1955	American Smelting and Refining Co.	Owner	100.00%	41,888
1956	American Smelting and Refining Co.	Owner	100.00%	45,995
1957	American Smelting and Refining Co.	Owner	100.00%	36,919
1958	American Smelting and Refining Co.	Owner	100.00%	10,864
1960	American Smelting and Refining Co.	Owner	100.00%	17
1961	Bunker Hill & S.M. & C. Co.	Owner	70.00%	84
	Hecla Mining Co.	Operator	30.00%	36
1962	Bunker Hill & S.M. & C. Co.	Owner	70.00%	14,473
	Hecla Mining Co.	Operator	30.00%	6,203
1963	Bunker Hill & S.M. & C. Co.	Owner	70.00%	37,486
	Hecla Mining Co.	Operator	30.00%	16,065
1964	Bunker Hill & S.M. & C. Co.	Owner	70.00%	73,388
	Hecla Mining Co.	Operator	30.00%	31,452
1965	Bunker Hill & S.M. & C. Co.	Owner	70.00%	89,662
	Hecla Mining Co.	Operator	30.00%	38,427
1966	Bunker Hill & S.M. & C. Co.	Operator	70.00%	105,071
	Hecla Mining Co.	Owner	30.00%	45,030
1967	Bunker Hill & S.M. & C. Co.	Operator	70.00%	85,074
	Hecla Mining Co.	Owner	30.00%	36,460
1968	Bunker Hill & S.M. & C. Co.	Operator	70.00%	63,095
	Hecla Mining Co.	Owner	30.00%	27,041
1969	Bunker Hill & S.M. & C. Co.	Operator	70.00%	61,016
	Hecla Mining Co.	Owner	30.00%	26,150
1970	Bunker Hill & S.M. & C. Co.	Operator	70.00%	89,338
	Hecla Mining Co.	Owner	30.00%	38,288
1971	Bunker Hill & S.M. & C. Co.	Operator	70.00%	114,225
	Hecla Mining Co.	Owner	30.00%	48,953

1972	Bunker Hill & S.M. & C. Co.	Operator	70.00%	132,870
	Hecla Mining Co.	Owner	30.00%	56,944
1973	Bunker Hill & S.M. & C. Co.	Operator	70.00%	140,822
	Hecla Mining Co.	Owner	30.00%	60,352
1974	Bunker Hill & S.M. & C. Co.	Operator	70.00%	137,354
	Hecla Mining Co.	Owner	30.00%	58,866
1975	Bunker Hill & S.M. & C. Co.	Operator	70.00%	136,339
	Hecla Mining Co.	Owner	30.00%	58,431
1976	Bunker Hill & S.M. & C. Co.	Operator	70.00%	159,297
	Hecla Mining Co.	Owner	30.00%	68,270
1977	Bunker Hill & S.M. & C. Co.	Operator	70.00%	158,709
	Hecla Mining Co.	Owner	30.00%	68,018
1978	Bunker Hill & S.M. & C. Co.	Operator	70.00%	160,444
	Hecla Mining Co.	Owner	30.00%	68,762
1979	Bunker Hill & S.M. & C. Co.	Operator	70.00%	148,107
	Hecla Mining Co.	Owner	30.00%	63,475

Total Short Tons of Mined Ore:	18,631,758
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Total Short Tons from this mine according to Bennett and Mitchell:	18,631,754
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	12,913,060	69.31%
Bunker Hill & S.M. & C. Co.	1,906,854	10.23%
Various Morning Mine Owners	1,504,955	8.08%
Larson/Greenough/Kilmer	1,208,505	6.49%
Hecla Mining Co.	817,223	4.39%
American Smelting and Refining Co.	281,161	1.51%

Draft Mine Production Report

Page Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Federal Mining & Smelting	Owner	100.00% 4,514
1927	Federal Mining & Smelting	Owner	100.00% 64,739
1928	Federal Mining & Smelting	Owner	100.00% 84,023
1929	Federal Mining & Smelting	Owner	100.00% 86,027
1930	Federal Mining & Smelting	Owner	100.00% 74,744
1931	Federal Mining & Smelting	Owner	100.00% 41,134
1932	Federal Mining & Smelting	Owner	100.00% 19,174
1933	Federal Mining & Smelting	Owner	100.00% 21,868
1934	Federal Mining & Smelting	Owner	100.00% 41,394
1935	Federal Mining & Smelting	Owner	100.00% 58,972
1936	Federal Mining & Smelting	Owner	100.00% 71,100
1937	Federal Mining & Smelting	Owner	100.00% 72,628
1938	Federal Mining & Smelting	Owner	100.00% 71,508
1939	Federal Mining & Smelting	Owner	100.00% 71,852
1940	Federal Mining & Smelting	Owner	100.00% 88,660
1941	Federal Mining & Smelting	Owner	100.00% 102,350
1942	Federal Mining & Smelting	Owner	100.00% 139,848
1943	Federal Mining & Smelting	Owner	100.00% 141,460
1944	Federal Mining & Smelting	Owner	100.00% 116,976
1945	Federal Mining & Smelting	Owner	100.00% 80,727
1946	Federal Mining & Smelting	Owner	100.00% 102,875
1947	Federal Mining & Smelting	Owner	100.00% 129,276
1948	Federal Mining & Smelting	Owner	100.00% 158,179
1949	Federal Mining & Smelting	Owner	100.00% 154,230
1950	Federal Mining & Smelting	Owner	100.00% 159,663
1951	Federal Mining & Smelting	Owner	100.00% 130,181
1952	Federal Mining & Smelting	Owner	100.00% 139,973
1953	American Smelting and Refining Co.	Owner	100.00% 153,718
1954	American Smelting and Refining Co.	Owner	100.00% 132,656
1955	American Smelting and Refining Co.	Owner	100.00% 76,831
1956	American Smelting and Refining Co.	Owner	100.00% 109,586
1957	American Smelting and Refining Co.	Owner	100.00% 128,751
1958	American Smelting and Refining Co.	Owner	100.00% 117,411
1959	American Smelting and Refining Co.	Owner	100.00% 111,405
1960	American Smelting and Refining Co.	Owner	100.00% 46,369
1961	American Smelting and Refining Co.	Owner	100.00% 117,592
1962	American Smelting and Refining Co.	Owner	100.00% 118,520
1963	American Smelting and Refining Co.	Owner	100.00% 126,041
1964	American Smelting and Refining Co.	Owner	100.00% 130,937
1965	American Smelting and Refining Co.	Owner	100.00% 130,082
1966	American Smelting and Refining Co.	Owner	100.00% 130,275
1967	American Smelting and Refining Co.	Owner	100.00% 70,808
1968	American Smelting and Refining Co.	Owner	100.00% 86,744
1969	American Smelting and Refining Co.	Owner	100.00% 91,464

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Total Short Tons of Mined Ore:	4,307,265
Total Short Tons from this mine according to Bennett and Mitchell:	4,307,335

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	2,428,075	56.37%
American Smelting and Refining Co.	1,879,190	43.63%

Draft Mine Production Report

Standard-Mammoth Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1887	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1888	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1889	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1890	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1891	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1892	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1893	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1894	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1895	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1896	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1897	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1898	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1899	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,965
1900	Federal Mining & Smelting	Owner	100.00% 58,965
1901	Federal Mining & Smelting	Owner	100.00% 141,107
1902	Federal Mining & Smelting	Owner	100.00% 231,699
1903	Federal Mining & Smelting	Owner	100.00% 365,908
1904	Federal Mining & Smelting	Owner	100.00% 383,788
1905	Federal Mining & Smelting	Owner	100.00% 398,867
1906	Federal Mining & Smelting	Owner	100.00% 335,212
1907	Federal Mining & Smelting	Owner	100.00% 243,900
1908	Federal Mining & Smelting	Owner	100.00% 322,559
1909	Federal Mining & Smelting	Owner	100.00% 264,152
1910	Federal Mining & Smelting	Owner	100.00% 201,350
1911	Federal Mining & Smelting	Owner	100.00% 225,400
1912	Federal Mining & Smelting	Owner	50.00% 77,460
	Greenhill-Cleveland Mining Co.	Operator	50.00% 77,460
1913	Federal Mining & Smelting	Owner	50.00% 68
	Greenhill-Cleveland Mining Co.	Operator	50.00% 68
1914	Federal Mining & Smelting	Owner	50.00% 16
	Greenhill-Cleveland Mining Co.	Operator	50.00% 16
1915	Federal Mining & Smelting	Owner	50.00% 50
	Greenhill-Cleveland Mining Co.	Operator	50.00% 50
1916	Federal Mining & Smelting	Owner	100.00% 88
1917	Federal Mining & Smelting	Owner	100.00% 635
1918	Federal Mining & Smelting	Owner	100.00% 882
1919	Federal Mining & Smelting	Owner	100.00% 2,423
1920	Federal Mining & Smelting	Owner	100.00% 2,955
1921	Federal Mining & Smelting	Owner	100.00% 1,364
1922	Federal Mining & Smelting	Owner	100.00% 1,696
1923	Federal Mining & Smelting	Owner	100.00% 1,831
1924	Federal Mining & Smelting	Owner	100.00% 1,672
1925	Federal Mining & Smelting	Owner	100.00% 1,264
1926	Federal Mining & Smelting	Owner	100.00% 950

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1927	Federal Mining & Smelting	Owner	100.00%	617
1928	Federal Mining & Smelting	Owner	100.00%	1,044
1929	Federal Mining & Smelting	Owner	100.00%	608
1930	Federal Mining & Smelting	Owner	100.00%	237
1931	Federal Mining & Smelting	Owner	100.00%	101
1932	Federal Mining & Smelting	Owner	100.00%	146
1933	Federal Mining & Smelting	Owner	100.00%	96
1934	Federal Mining & Smelting	Owner	100.00%	96
1935	Federal Mining & Smelting	Owner	100.00%	69
1936	Federal Mining & Smelting	Owner	100.00%	335
1937	Federal Mining & Smelting	Owner	100.00%	144
1938	Federal Mining & Smelting	Owner	100.00%	23
1939	Federal Mining & Smelting	Owner	100.00%	1,100
1940	Federal Mining & Smelting	Owner	100.00%	6,128
1941	Federal Mining & Smelting	Owner	100.00%	293
1942	Federal Mining & Smelting	Owner	100.00%	154
1943	Federal Mining & Smelting	Owner	100.00%	106
1944	Federal Mining & Smelting	Owner	100.00%	2
1945	Federal Mining & Smelting	Owner	100.00%	130
1946	Federal Mining & Smelting	Owner	100.00%	884
1947	Federal Mining & Smelting	Owner	100.00%	2,421
1948	Federal Mining & Smelting	Owner	100.00%	2,287
1949	Federal Mining & Smelting	Owner	100.00%	481
1950	Federal Mining & Smelting	Owner	100.00%	765
1951	Federal Mining & Smelting	Owner	100.00%	878
1952	Federal Mining & Smelting	Owner	100.00%	248
1965	ASARCO	Owner	100.00%	23

Total Short Tons of Mined Ore:	4,129,801
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Total Short Tons from this mine according to Bennett and Mitchell:	3,763,893
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Federal Mining & Smelting	3,285,653	79.56%
Various Standard-Mammoth Mine Owners	766,533	18.56%
Greenhill-Cleveland Mining Co.	77,593	1.88%
ASARCO	23	0.00%

Draft Mine Production Report

Tiger-Poorman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1884	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1885	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1886	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1887	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1888	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1889	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1890	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1891	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1892	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1893	Various Tiger-Poorman Owners	Owner	100.00% 10,707
1894	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1895	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1896	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1897	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1898	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1899	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1900	Various Tiger-Poorman Owners	Owner	100.00% 10,706
1901	Various Tiger-Poorman Owners	Owner	100.00% 141,107
1902	Various Tiger-Poorman Owners	Owner	100.00% 115,500
1903	Federal Mining & Smelting	Owner	100.00% 110,958
1904	Federal Mining & Smelting	Owner	100.00% 130,166
1905	Federal Mining & Smelting	Owner	100.00% 132,051
1906	Federal Mining & Smelting	Owner	100.00% 117,476
1907	Federal Mining & Smelting	Owner	100.00% 51,800
1908	Federal Mining & Smelting	Owner	100.00% 26,226
1909	Federal Mining & Smelting	Owner	100.00% 112,099
1910	Federal Mining & Smelting	Owner	100.00% 434
1912	Federal Mining & Smelting	Owner	100.00% 118
1913	Federal Mining & Smelting	Owner	100.00% 77
1914	Federal Mining & Smelting	Owner	100.00% 100
1915	Federal Mining & Smelting	Owner	100.00% 99
1916	Federal Mining & Smelting	Owner	100.00% 58
1917	Federal Mining & Smelting	Owner	100.00% 5,271
1918	Federal Mining & Smelting	Owner	100.00% 533
1919	Federal Mining & Smelting	Owner	100.00% 478
1941	Hecla Mining Co.	Owner	100.00% 76
1943	Hecla Mining Co.	Owner	100.00% 880
1951	Hecla Mining Co.	Owner	100.00% 1,064
1952	Hecla Mining Co.	Owner	100.00% 210

Total Short Tons of Mined Ore:	1,128,793
Total Short Tons from this mine according to Bennett and Mitchell:	1,128,793

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Federal Mining & Smelting	687,944	60.95%
Various Tiger-Poorman Owners	438,619	38.86%
Hecla Mining Co.	2,230	0.20%

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Draft Mine Production Report

Wyoming Mine

Drainage: South Fork of CDA below the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Wyoming Mine Owners	Owner	100.00% 252
1917	Various Wyoming Mine Owners	Owner	100.00% 252
1918	Various Wyoming Mine Owners	Owner	100.00% 252
1919	Various Wyoming Mine Owners	Owner	100.00% 252
1920	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1921	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1922	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1923	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1924	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 252
1925	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 253
1926	Wyoming Mining and Milling Co., Ltd.	Owner	100.00% 253

Total Short Tons of Mined Ore: 2,774

Total Short Tons from this mine
according to Bennett and Mitchell: 2,774

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Wyoming Mining and Milling Co., Ltd.	1,766	63.66%
Various Wyoming Mine Owners	1,008	36.34%

GOLCONDA LEAD MINES

Draft Defendant Company Report

Golconda Lead Mines, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Golconda	1927 — 1961	288,101
Total Tons of Mined Ore:		288,101
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.34%

The above defendant company is successor in interest to the following owner / operators:

Golconda Lead Mines

Draft Mine Production Report

Golconda Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1926	Various Golconda Mine Owners	Owner	100.00%	8,232
1927	Golconda Lead Mines	Owner	100.00%	8,232
1928	Golconda Lead Mines	Owner	100.00%	8,232
1929	Golconda Lead Mines	Owner	100.00%	8,232
1930	Golconda Lead Mines	Owner	100.00%	8,232
1931	Golconda Lead Mines	Owner	100.00%	8,232
1932	Golconda Lead Mines	Owner	100.00%	8,232
1933	Golconda Lead Mines	Owner	100.00%	8,232
1934	Golconda Lead Mines	Owner	100.00%	8,232
1935	Golconda Lead Mines	Owner	100.00%	8,232
1936	Golconda Lead Mines	Owner	100.00%	8,232
1937	Golconda Lead Mines	Owner	100.00%	8,232
1938	Golconda Lead Mines	Owner	100.00%	8,232
1939	Golconda Lead Mines	Owner	100.00%	8,232
1940	Golconda Lead Mines	Owner	100.00%	8,232
1941	Golconda Lead Mines	Owner	100.00%	8,232
1942	Golconda Lead Mines	Owner	100.00%	8,232
1943	Golconda Lead Mines	Owner	100.00%	8,231
1944	Golconda Lead Mines	Owner	100.00%	8,231
1945	Golconda Lead Mines	Owner	100.00%	8,231
1946	Golconda Lead Mines	Owner	100.00%	8,231
1947	Golconda Lead Mines	Owner	100.00%	8,231
1948	Golconda Lead Mines	Owner	100.00%	8,231
1949	Golconda Lead Mines	Owner	100.00%	8,231
1950	Golconda Lead Mines	Owner	100.00%	8,231
1951	Golconda Lead Mines	Owner	100.00%	8,231
1952	Golconda Lead Mines	Owner	100.00%	8,231
1953	Golconda Lead Mines	Owner	100.00%	8,231
1954	Golconda Lead Mines	Owner	100.00%	8,231
1955	Golconda Lead Mines	Owner	100.00%	8,231
1956	Golconda Lead Mines	Owner	100.00%	8,231
1957	Golconda Lead Mines	Owner	100.00%	8,231
1958	Golconda Lead Mines	Owner	100.00%	8,231
1959	Golconda Lead Mines	Owner	100.00%	8,231
1960	Golconda Lead Mines	Owner	100.00%	8,231
1961	Golconda Lead Mines	Owner	100.00%	8,231
1962	Golconda Mining Corp.	Owner	100.00%	8,231
1963	Golconda Mining Corp.	Owner	100.00%	8,231
1964	Golconda Mining Corp.	Owner	100.00%	8,231
1965	Golconda Mining Corp.	Owner	100.00%	8,231
1966	Golconda Mining Corp.	Owner	100.00%	8,231
1967	Golconda Mining Corp.	Owner	100.00%	8,231

Total Short Tons of Mined Ore:	345,719
Total Short Tons from this mine according to Bennett and Mitchell:	339,228

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Golconda Lead Mines	288,101 83.33%
Golconda Mining Corp.	49,386 14.29%
Various Golconda Mine Owners	8,232 2.38%

GOLCONDA MINING

Draft Defendant Company Report

Golconda Mining Corporation

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Golconda	1962 — 1967	57,618
Total Tons of Mined Ore:		57,618
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.07%

The above defendant company is successor in interest to the following owner / operators:

Golconda Mining Corp.

Various Golconda Mine Owners

Draft Mine Production Report

Golconda Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Various Golconda Mine Owners	Owner	100.00% 8,232
1927	Golconda Lead Mines	Owner	100.00% 8,232
1928	Golconda Lead Mines	Owner	100.00% 8,232
1929	Golconda Lead Mines	Owner	100.00% 8,232
1930	Golconda Lead Mines	Owner	100.00% 8,232
1931	Golconda Lead Mines	Owner	100.00% 8,232
1932	Golconda Lead Mines	Owner	100.00% 8,232
1933	Golconda Lead Mines	Owner	100.00% 8,232
1934	Golconda Lead Mines	Owner	100.00% 8,232
1935	Golconda Lead Mines	Owner	100.00% 8,232
1936	Golconda Lead Mines	Owner	100.00% 8,232
1937	Golconda Lead Mines	Owner	100.00% 8,232
1938	Golconda Lead Mines	Owner	100.00% 8,232
1939	Golconda Lead Mines	Owner	100.00% 8,232
1940	Golconda Lead Mines	Owner	100.00% 8,232
1941	Golconda Lead Mines	Owner	100.00% 8,232
1942	Golconda Lead Mines	Owner	100.00% 8,232
1943	Golconda Lead Mines	Owner	100.00% 8,231
1944	Golconda Lead Mines	Owner	100.00% 8,231
1945	Golconda Lead Mines	Owner	100.00% 8,231
1946	Golconda Lead Mines	Owner	100.00% 8,231
1947	Golconda Lead Mines	Owner	100.00% 8,231
1948	Golconda Lead Mines	Owner	100.00% 8,231
1949	Golconda Lead Mines	Owner	100.00% 8,231
1950	Golconda Lead Mines	Owner	100.00% 8,231
1951	Golconda Lead Mines	Owner	100.00% 8,231
1952	Golconda Lead Mines	Owner	100.00% 8,231
1953	Golconda Lead Mines	Owner	100.00% 8,231
1954	Golconda Lead Mines	Owner	100.00% 8,231
1955	Golconda Lead Mines	Owner	100.00% 8,231
1956	Golconda Lead Mines	Owner	100.00% 8,231
1957	Golconda Lead Mines	Owner	100.00% 8,231
1958	Golconda Lead Mines	Owner	100.00% 8,231
1959	Golconda Lead Mines	Owner	100.00% 8,231
1960	Golconda Lead Mines	Owner	100.00% 8,231
1961	Golconda Lead Mines	Owner	100.00% 8,231
1962	Golconda Mining Corp.	Owner	100.00% 8,231
1963	Golconda Mining Corp.	Owner	100.00% 8,231
1964	Golconda Mining Corp.	Owner	100.00% 8,231
1965	Golconda Mining Corp.	Owner	100.00% 8,231
1966	Golconda Mining Corp.	Owner	100.00% 8,231
1967	Golconda Mining Corp.	Owner	100.00% 8,231

Total Short Tons of Mined Ore:	345,719
Total Short Tons from this mine according to Bennett and Mitchell:	339,228

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Golconda Lead Mines	288,101	83.33%
Golconda Mining Corp.	49,386	14.29%
Various Golconda Mine Owners	8,232	2.38%

GREENHILL CLEVELAND

Draft Defendant Company Report

Green Hill Cleveland Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Greenhill-Cleveland	1912 — 1918	390,257
Standard-Mammoth	1912 — 1915	77,593

Total Tons of Mined Ore: 467,849

Total Tons Mined in the CDA Basin from 1884 - 1980: 83,816,527

Percent of CDA Basin Total: 0.56%

The above defendant company is successor in interest to the following owner / operators:

Greenhill-Cleveland Mining Co.

Draft Mine Production Report

Greenhill-Cleveland Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1903	Various Greenhill-Cleveland Mine Owners	Owner	100.00% 8,400
1912	Federal Mining & Smelting	Owner	50.00% 17,494
	Greenhill-Cleveland Mining Co.	Operator	50.00% 17,494
1913	Federal Mining & Smelting	Owner	50.00% 86,923
	Greenhill-Cleveland Mining Co.	Operator	50.00% 86,923
1914	Federal Mining & Smelting	Owner	50.00% 84,139
	Greenhill-Cleveland Mining Co.	Operator	50.00% 84,139
1915	Federal Mining & Smelting	Owner	50.00% 73,419
	Greenhill-Cleveland Mining Co.	Operator	50.00% 73,419
1916	Federal Mining & Smelting	Owner	50.00% 80,498
	Greenhill-Cleveland Mining Co.	Operator	50.00% 80,498
1917	Federal Mining & Smelting	Owner	50.00% 47,358
	Greenhill-Cleveland Mining Co.	Operator	50.00% 47,358
1918	Federal Mining & Smelting	Owner	50.00% 426
	Greenhill-Cleveland Mining Co.	Operator	50.00% 426

Total Short Tons of Mined Ore: 788,913

**Total Short Tons from this mine
according to Bennett and Mitchell:** 791,447

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Greenhill-Cleveland Mining Co.	390,257	49.47%
Federal Mining & Smelting	390,257	49.47%
Various Greenhill-Cleveland Mine Owners	8,400	1.06%

Draft Mine Production Report

Standard-Mammoth Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1887	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1888	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1889	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1890	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1891	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1892	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1893	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1894	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1895	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1896	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1897	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1898	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,964
1899	Various Standard-Mammoth Mine Owners	Owner	100.00% 58,965
1900	Federal Mining & Smelting	Owner	100.00% 58,965
1901	Federal Mining & Smelting	Owner	100.00% 141,107
1902	Federal Mining & Smelting	Owner	100.00% 231,699
1903	Federal Mining & Smelting	Owner	100.00% 365,908
1904	Federal Mining & Smelting	Owner	100.00% 383,788
1905	Federal Mining & Smelting	Owner	100.00% 398,867
1906	Federal Mining & Smelting	Owner	100.00% 335,212
1907	Federal Mining & Smelting	Owner	100.00% 243,900
1908	Federal Mining & Smelting	Owner	100.00% 322,559
1909	Federal Mining & Smelting	Owner	100.00% 264,152
1910	Federal Mining & Smelting	Owner	100.00% 201,350
1911	Federal Mining & Smelting	Owner	100.00% 225,400
1912	Federal Mining & Smelting	Owner	50.00% 77,460
	Greenhill-Cleveland Mining Co.	Operator	50.00% 77,460
1913	Federal Mining & Smelting	Owner	50.00% 68
	Greenhill-Cleveland Mining Co.	Operator	50.00% 68
1914	Federal Mining & Smelting	Owner	50.00% 16
	Greenhill-Cleveland Mining Co.	Operator	50.00% 16
1915	Federal Mining & Smelting	Owner	50.00% 50
	Greenhill-Cleveland Mining Co.	Operator	50.00% 50
1916	Federal Mining & Smelting	Owner	100.00% 88
1917	Federal Mining & Smelting	Owner	100.00% 635
1918	Federal Mining & Smelting	Owner	100.00% 882
1919	Federal Mining & Smelting	Owner	100.00% 2,423
1920	Federal Mining & Smelting	Owner	100.00% 2,955
1921	Federal Mining & Smelting	Owner	100.00% 1,364
1922	Federal Mining & Smelting	Owner	100.00% 1,696
1923	Federal Mining & Smelting	Owner	100.00% 1,831
1924	Federal Mining & Smelting	Owner	100.00% 1,672
1925	Federal Mining & Smelting	Owner	100.00% 1,264
1926	Federal Mining & Smelting	Owner	100.00% 950

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1927	Federal Mining & Smelting	Owner	100.00%	617
1928	Federal Mining & Smelting	Owner	100.00%	1,044
1929	Federal Mining & Smelting	Owner	100.00%	608
1930	Federal Mining & Smelting	Owner	100.00%	237
1931	Federal Mining & Smelting	Owner	100.00%	101
1932	Federal Mining & Smelting	Owner	100.00%	146
1933	Federal Mining & Smelting	Owner	100.00%	96
1934	Federal Mining & Smelting	Owner	100.00%	96
1935	Federal Mining & Smelting	Owner	100.00%	69
1936	Federal Mining & Smelting	Owner	100.00%	335
1937	Federal Mining & Smelting	Owner	100.00%	144
1938	Federal Mining & Smelting	Owner	100.00%	23
1939	Federal Mining & Smelting	Owner	100.00%	1,100
1940	Federal Mining & Smelting	Owner	100.00%	6,128
1941	Federal Mining & Smelting	Owner	100.00%	293
1942	Federal Mining & Smelting	Owner	100.00%	154
1943	Federal Mining & Smelting	Owner	100.00%	106
1944	Federal Mining & Smelting	Owner	100.00%	2
1945	Federal Mining & Smelting	Owner	100.00%	130
1946	Federal Mining & Smelting	Owner	100.00%	884
1947	Federal Mining & Smelting	Owner	100.00%	2,421
1948	Federal Mining & Smelting	Owner	100.00%	2,287
1949	Federal Mining & Smelting	Owner	100.00%	481
1950	Federal Mining & Smelting	Owner	100.00%	765
1951	Federal Mining & Smelting	Owner	100.00%	878
1952	Federal Mining & Smelting	Owner	100.00%	248
1965	ASARCO	Owner	100.00%	23

Total Short Tons of Mined Ore: 4,129,801

**Total Short Tons from this mine
according to Bennett and Mitchell:** 3,763,893

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	3,285,653	79.56%
Various Standard-Mammoth Mine Owners	766,533	18.56%
Greenhill-Cleveland Mining Co.	77,593	1.88%
ASARCO	23	0.00%

HECLA

Draft Defendant Company Report

Hecla Mining Company, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Fairview & Wide West	1947 — 1950	57,186
Hecla	1901 — 1969	7,686,505
Hercules	1901 — 1946	3,519,512
Hummingbird	1926 — 1931	18,740
Marsh	1916 — 1925	128,805
Sherman	1927 — 1946	661,071
Tiger-Poorman	1941 — 1952	440,849
Ambergris/Gulf/Honolulu	1929 — 1934	16,786
Dayrock	1924 — 1928	1,276,488
Interstate/Callahan	1945 — 1946	220,250
Rex	1926 — 1942	80,264
Success	1905 — 1952	823,395
Sunset	1949 — 1976	75,338
Tamarack-Custer	1905 — 1907	2,819,472
Amazon	1941 — 1946	1,287,907
Blue Grouse	1952 — 1969	2,747
Carlisle	1942 — 1942	78,963
Idora	1907 — 1914	5,707
Mountain Goat	1955 — 1970	344,674
Nepsic	1943 — 1947	10,475
Ray Jefferson	1916 — 1916	130
Silver Tip	1947 — 1959	30,255
Tough Nut	1943 — 1943	1,448
Tuscumbia	1947 — 1956	12,632
Gold Hunter	1901 — 1924	3,248,771
Lucky Friday	1942 — 1963	3,998,754
Morning	1898 — 1904	3,530,683
National	1914 — 1922	170,008
Star	1925 — 1980	3,214,500
Coeur Unit	1969 — 1980	52,241
Galena	1950 — 1980	520,797
Polaris	1916 — 1936	320,783
Rainbow	1957 — 1957	12,591
Silver Summit	1959 — 1969	798,765
Sunshine	1958 — 1980	1,383,234
Western Union	1947 — 1948	11,173

Total Tons of Mined Ore:	36,861,898
Total Tons Mined in the CDA Basin from 1884 - 1980:	83,816,527
Percent of CDA Basin Total:	43.98%

The above defendant company is successor in interest to the following owner / operators:

Amazon-Manhattan Group
 Amazon-Manhattan Mining Co.
 Ambergis Consolidated Mining Co.
 Ambergis Mines Co.
 Day Mines, Inc.
 Dayrock Mining Co.
 Delaware Mines Corp.
 Gold Hunter Mines, Inc.
 Gold Hunter Mining and Smelting Co.
 Guelph Mining and Milling Co., Ltd.
 Hecla Mining Co.
 Hercules Mining Co.
 Honolulu Mining Co., Ltd.
 Hummingbird Mining Co.
 Idora Hill Mining Co., Ltd.
 Idora Mining Co., Ltd.
 Larson/Greenough/Kilmer
 Lucky Friday Mining Co.
 Lucky Friday Silver-Lead Mines Co.
 Marsh Mines Consolidated Co.
 Marsh Mining Co.
 Monitor Mining Co.
 National Copper Mining Co., Ltd.
 Polaris Development & Mining Co.
 Polaris Mining Co.
 Rex Consolidated Mining Co.
 Rex Mining Co.
 Sherman Lead Co.
 Silver Summit Mining Co.
 Stratton's Mines Co.
 Success Mining Co., Ltd.
 Tamarack and Chesapeake Mining Co.
 Tamarack and Custer Consolidated Mining Co.
 Tuscumbia Mining Co.
 Various Carlisle Mine Owners
 Various Interstate-Callahan Mine Owners
 Various Marsh Mine Owners
 Various Morning Mine Owners
 Various Ray Jefferson Mine Owners
 Various Silver Tip Mine Owners
 Various Tiger-Poorman Owners
 Various Tough Nut Mine Owners
 Various Tuscumbia Mine Owners
 Western Union Mining Co.

Draft Mine Production Report

Amazon Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1912	Amazon-Manhattan Group	Owner 100.00%	304
1918	Amazon-Manhattan Mining Co.	Owner 100.00%	10,245
1923	Amazon-Manhattan Mining Co.	Owner 100.00%	10
1937	Amazon-Manhattan Mining Co.	Owner 100.00%	829
1941	Monitor Mining Co.	Owner 100.00%	1,232
1942	Monitor Mining Co.	Owner 100.00%	14,693
1943	Monitor Mining Co.	Owner 100.00%	36,965
1944	Monitor Mining Co.	Owner 100.00%	77,003
1945	Monitor Mining Co.	Owner 100.00%	77,555
1946	Monitor Mining Co.	Owner 100.00%	48,608
1947	Day Mines, Inc.	Owner 100.00%	77,382
1948	Day Mines, Inc.	Owner 100.00%	96,823
1949	Day Mines, Inc.	Owner 100.00%	101,504
1950	Day Mines, Inc.	Owner 100.00%	33,882
1951	Day Mines, Inc.	Owner 100.00%	66,846
1952	Day Mines, Inc.	Owner 100.00%	51,010
1953	Day Mines, Inc.	Owner 100.00%	4,654
1954	Day Mines, Inc.	Owner 100.00%	1,369
1955	Day Mines, Inc.	Owner 100.00%	2,717
1956	Day Mines, Inc.	Owner 100.00%	15,365
1957	Day Mines, Inc.	Owner 100.00%	17,084
1958	Day Mines, Inc.	Owner 100.00%	16,985
1959	Day Mines, Inc.	Owner 100.00%	16,468
1960	Day Mines, Inc.	Owner 100.00%	25,401
1961	Day Mines, Inc.	Owner 100.00%	23,247
1962	Day Mines, Inc.	Owner 100.00%	21,273
1963	Day Mines, Inc.	Owner 100.00%	37,619
1964	Day Mines, Inc.	Owner 100.00%	74,152
1965	Day Mines, Inc.	Owner 100.00%	96,075
1966	Day Mines, Inc.	Owner 100.00%	34,886
1967	Day Mines, Inc.	Owner 100.00%	22,124
1968	Day Mines, Inc.	Owner 100.00%	19,258
1969	Day Mines, Inc.	Owner 100.00%	19,242
1970	Day Mines, Inc.	Owner 100.00%	18,822
1971	Day Mines, Inc.	Owner 100.00%	19,421
1972	Day Mines, Inc.	Owner 100.00%	20,259
1973	Day Mines, Inc.	Owner 100.00%	20,674
1974	Day Mines, Inc.	Owner 100.00%	22,118
1975	Day Mines, Inc.	Owner 100.00%	19,448
1976	Day Mines, Inc.	Owner 100.00%	21,027
1977	Day Mines, Inc.	Owner 100.00%	3,328

Total Short Tons of Mined Ore:	1,287,907
Total Short Tons from this mine according to Bennett and Mitchell:	1,287,907

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Day Mines, Inc.	1,020,463	79.23%
Monitor Mining Co.	256,056	19.88%
Amazon-Manhattan Mining Co.	11,084	0.86%
Amazon-Manhattan Group	304	0.02%

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Draft Mine Production Report

Ambergris/Gulf/Honolulu Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1919	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1920	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1921	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1922	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1923	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1924	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1925	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1926	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1927	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1928	Ambergris Mines Co.	Owner	34.00%
	Guelph Mining and Milling Co., Ltd.	Owner	33.00%
	Honolulu Mining Co., Ltd.	Owner	33.00%
1929	Ambergris Consolidated Mining Co.	Owner	100.00%
1930	Ambergris Consolidated Mining Co.	Owner	100.00%
1931	Ambergris Consolidated Mining Co.	Owner	100.00%
1932	Ambergris Consolidated Mining Co.	Owner	100.00%
1933	Ambergris Consolidated Mining Co.	Owner	100.00%
1934	Ambergris Consolidated Mining Co.	Owner	100.00%

Total Short Tons of Mined Ore:	16,786
Total Short Tons from this mine according to Bennett and Mitchell:	16,786

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Ambergris Consolidated Mining Co.	6,294	37.50%
Ambergris Mines Co.	3,567	21.25%
Honolulu Mining Co., Ltd.	3,462	20.63%
Guelph Mining and Milling Co., Ltd.	3,462	20.63%

Draft Mine Production Report

Blue Grouse Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1952	Monitor Mining Co.	Owner	100.00% 152
1953	Monitor Mining Co.	Owner	100.00% 152
1954	Monitor Mining Co.	Owner	100.00% 152
1955	Monitor Mining Co.	Owner	100.00% 152
1956	Monitor Mining Co.	Owner	100.00% 152
1957	Monitor Mining Co.	Owner	100.00% 152
1958	Monitor Mining Co.	Owner	100.00% 152
1959	Monitor Mining Co.	Owner	100.00% 153
1960	Monitor Mining Co.	Owner	100.00% 153
1961	Monitor Mining Co.	Owner	100.00% 153
1962	Monitor Mining Co.	Owner	100.00% 153
1963	Monitor Mining Co.	Owner	100.00% 153
1964	Monitor Mining Co.	Owner	100.00% 153
1965	Monitor Mining Co.	Owner	100.00% 153
1966	Monitor Mining Co.	Owner	100.00% 153
1967	Monitor Mining Co.	Owner	100.00% 153
1968	Monitor Mining Co.	Owner	100.00% 153
1969	Monitor Mining Co.	Owner	100.00% 153

Total Short Tons of Mined Ore: 2,747

**Total Short Tons from this mine
according to Bennett and Mitchell:** 2,747

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Monitor Mining Co.	2,747	100.00%
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Draft Mine Production Report

Carlisle Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1942	Various Carlisle Mine Owners	Owner 100.00%	13,160
1943	Monitor Mining Co.	Owner 100.00%	13,160
1944	Monitor Mining Co.	Owner 100.00%	13,160
1945	Monitor Mining Co.	Owner 100.00%	13,161
1946	Monitor Mining Co.	Owner 100.00%	13,161
1947	Monitor Mining Co.	Owner 100.00%	13,161
Total Short Tons of Mined Ore:			78,963
Total Short Tons from this mine according to Bennett and Mitchell:			78,963

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Monitor Mining Co.	65,803 83.33%
Various Carlisle Mine Owners	13,160 16.67%

Draft Mine Production Report

Coeur Unit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1969	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1974	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1976	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1977	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1978	American Smelting and Refining Co.	Operator	43.34%
	Callahan Mining Corp.	Operator	8.33%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	8.33%
1979	American Smelting and Refining Co.	Owner	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Operator	40.00%
	Day Mines, Inc.	Operator	5.00%
1980	American Smelting and Refining Co.	Operator	50.00%
	Callahan Mining Corp.	Operator	5.00%
	Coeur d'Alene Mines Corp.	Owner	40.00%
	Day Mines, Inc.	Operator	5.00%
Total Short Tons of Mined Ore:			755,620
Total Short Tons from this mine according to Bennett and Mitchell:			755,618

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
American Smelting and Refining Co.	348,889 46.17%
Coeur d'Alene Mines Corp.	302,248 40.00%
Day Mines, Inc.	52,241 6.91%
Callahan Mining Corp.	52,241 6.91%

Draft Mine Production Report

Dayrock Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1924	Stratton's Mines Co.	Owner 100.00%	841
1926	Stratton's Mines Co.	Owner 100.00%	1,978
1927	Stratton's Mines Co.	Owner 100.00%	17,486
1928	Stratton's Mines Co.	Owner 100.00%	22,117
1929	Dayrock Mining Co.	Owner 100.00%	37,254
1930	Dayrock Mining Co.	Owner 100.00%	29,987
1931	Dayrock Mining Co.	Owner 100.00%	6,463
1935	Dayrock Mining Co.	Owner 100.00%	429
1936	Dayrock Mining Co.	Owner 100.00%	838
1937	Dayrock Mining Co.	Owner 100.00%	6,448
1938	Dayrock Mining Co.	Owner 100.00%	7,073
1939	Dayrock Mining Co.	Owner 100.00%	6,214
1940	Dayrock Mining Co.	Owner 100.00%	9,872
1941	Dayrock Mining Co.	Owner 100.00%	11,280
1942	Dayrock Mining Co.	Owner 100.00%	26,278
1943	Dayrock Mining Co.	Owner 100.00%	27,556
1944	Dayrock Mining Co.	Owner 100.00%	32,833
1945	Dayrock Mining Co.	Owner 100.00%	30,922
1946	Dayrock Mining Co.	Owner 100.00%	27,873
1947	Day Mines, Inc.	Owner 100.00%	46,363
1948	Day Mines, Inc.	Owner 100.00%	56,587
1949	Day Mines, Inc.	Owner 100.00%	50,110
1950	Day Mines, Inc.	Owner 100.00%	58,586
1951	Day Mines, Inc.	Owner 100.00%	56,160
1952	Day Mines, Inc.	Owner 100.00%	58,190
1953	Day Mines, Inc.	Owner 100.00%	70,868
1954	Day Mines, Inc.	Owner 100.00%	61,856
1955	Day Mines, Inc.	Owner 100.00%	40,752
1956	Day Mines, Inc.	Owner 100.00%	48,967
1957	Day Mines, Inc.	Owner 100.00%	47,631
1958	Day Mines, Inc.	Owner 100.00%	16,001
1959	Day Mines, Inc.	Owner 100.00%	12,691
1960	Day Mines, Inc.	Owner 100.00%	11,594
1961	Day Mines, Inc.	Owner 100.00%	7,978
1962	Day Mines, Inc.	Owner 100.00%	9,467
1965	Day Mines, Inc.	Owner 100.00%	5,367
1966	Day Mines, Inc.	Owner 100.00%	35,801
1967	Day Mines, Inc.	Owner 100.00%	20,538
1968	Day Mines, Inc.	Owner 100.00%	26,142
1969	Day Mines, Inc.	Owner 100.00%	30,478
1970	Day Mines, Inc.	Owner 100.00%	23,357
1971	Day Mines, Inc.	Owner 100.00%	61,025
1972	Day Mines, Inc.	Owner 100.00%	64,545
1973	Day Mines, Inc.	Owner 100.00%	35,414

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1974	Day Mines, Inc.	Owner	100.00%	16,278
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Total Short Tons of Mined Ore:	1,276,488
Total Short Tons from this mine according to Bennett and Mitchell:	1,276,488

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Day Mines, Inc.	972,746	76.20%
Dayrock Mining Co.	261,320	20.47%
Stratton's Mines Co.	42,422	3.32%

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Draft Mine Production Report

Fairview & Wide West Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1945	Hercules Mining Co.	Owner	100.00%	9,531
1946	Hercules Mining Co.	Owner	100.00%	9,531
1947	Day Mines, Inc.	Owner	100.00%	9,531
1948	Day Mines, Inc.	Owner	100.00%	9,531
1949	Day Mines, Inc.	Owner	100.00%	9,531
1950	Day Mines, Inc.	Owner	100.00%	9,531
Total Short Tons of Mined Ore:				57,186
Total Short Tons from this mine according to Bennett and Mitchell:				57,186

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Day Mines, Inc.	38,124	66.67%
Hercules Mining Co.	19,062	33.33%

Draft Mine Production Report

Galena Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1922	Callahan Zinc-Lead Co.	Owner 100.00%	91
1926	Callahan Zinc-Lead Co.	Owner 100.00%	8,600
1927	Callahan Zinc-Lead Co.	Owner 100.00%	54,698
1928	Callahan Zinc-Lead Co.	Owner 100.00%	3,429
1929	Callahan Zinc-Lead Co.	Owner 100.00%	21,501
1930	Callahan Zinc-Lead Co.	Owner 100.00%	11,654
1931	Callahan Zinc-Lead Co.	Owner 100.00%	663
1935	Callahan Zinc-Lead Co.	Owner 100.00%	95
1937	Callahan Zinc-Lead Co.	Owner 100.00%	1,300
1938	Callahan Zinc-Lead Co.	Owner 100.00%	79
1950	American Smelting and Refining Co.	Operator 67.50%	1,089
	Day Mines, Inc.	Operator 22.50%	363
	Vulcan Silver and Lead Co.	Owner 10.00%	161
1951	American Smelting and Refining Co.	Operator 67.50%	696
	Day Mines, Inc.	Operator 22.50%	232
	Vulcan Silver and Lead Co.	Owner 10.00%	103
1952	American Smelting and Refining Co.	Operator 67.50%	8,570
	Day Mines, Inc.	Operator 22.50%	2,857
	Vulcan Silver and Lead Co.	Owner 10.00%	1,270
1953	American Smelting and Refining Co.	Operator 67.50%	29,340
	Day Mines, Inc.	Operator 22.50%	9,780
	Vulcan Silver and Lead Co.	Owner 10.00%	4,347
1954	American Smelting and Refining Co.	Operator 67.50%	32,915
	Day Mines, Inc.	Operator 22.50%	10,972
	Vulcan Silver and Lead Co.	Owner 10.00%	4,876
1955	American Smelting and Refining Co.	Operator 67.50%	38,130
	Day Mines, Inc.	Operator 22.50%	12,710
	Vulcan Silver and Lead Co.	Owner 10.00%	5,649
1956	American Smelting and Refining Co.	Operator 67.50%	59,349
	Day Mines, Inc.	Operator 22.50%	19,783
	Vulcan Silver and Lead Co.	Owner 10.00%	8,793
1957	American Smelting and Refining Co.	Operator 67.50%	83,112
	Day Mines, Inc.	Operator 22.50%	27,704
	Vulcan Silver and Lead Co.	Owner 10.00%	12,313
1958	American Smelting and Refining Co.	Operator 67.50%	80,880
	Callahan Mining Corp.	Owner 10.00%	11,982
	Day Mines, Inc.	Operator 22.50%	26,960
1959	American Smelting and Refining Co.	Operator 37.50%	44,170
	Callahan Mining Corp.	Owner 50.00%	58,893
	Day Mines, Inc.	Operator 12.50%	14,723
1960	American Smelting and Refining Co.	Operator 37.50%	18,261
	Callahan Mining Corp.	Owner 50.00%	24,348
	Day Mines, Inc.	Operator 12.50%	6,087
1961	American Smelting and Refining Co.	Operator 37.50%	44,769

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1961	Callahan Mining Corp.	Owner	50.00%	59,693
	Day Mines, Inc.	Operator	12.50%	14,923
1962	American Smelting and Refining Co.	Operator	37.50%	49,879
	Callahan Mining Corp.	Owner	50.00%	66,506
	Day Mines, Inc.	Operator	12.50%	16,626
1963	American Smelting and Refining Co.	Operator	37.50%	54,054
	Callahan Mining Corp.	Owner	50.00%	72,073
	Day Mines, Inc.	Operator	12.50%	18,018
1964	American Smelting and Refining Co.	Operator	37.50%	51,080
	Callahan Mining Corp.	Owner	50.00%	68,107
	Day Mines, Inc.	Operator	12.50%	17,027
1965	American Smelting and Refining Co.	Operator	37.50%	55,371
	Callahan Mining Corp.	Owner	50.00%	73,828
	Day Mines, Inc.	Operator	12.50%	18,457
1966	American Smelting and Refining Co.	Operator	37.50%	58,279
	Callahan Mining Corp.	Owner	50.00%	77,706
	Day Mines, Inc.	Operator	12.50%	19,426
1967	American Smelting and Refining Co.	Operator	37.50%	27,834
	Callahan Mining Corp.	Owner	50.00%	37,113
	Day Mines, Inc.	Operator	12.50%	9,278
1968	American Smelting and Refining Co.	Operator	37.50%	34,748
	Callahan Mining Corp.	Owner	50.00%	46,331
	Day Mines, Inc.	Operator	12.50%	11,583
1969	American Smelting and Refining Co.	Operator	37.50%	50,971
	Callahan Mining Corp.	Owner	50.00%	67,962
	Day Mines, Inc.	Operator	12.50%	16,990
1970	American Smelting and Refining Co.	Operator	37.50%	57,847
	Callahan Mining Corp.	Owner	50.00%	77,129
	Day Mines, Inc.	Operator	12.50%	19,282
1971	American Smelting and Refining Co.	Operator	37.50%	62,361
	Callahan Mining Corp.	Owner	50.00%	83,148
	Day Mines, Inc.	Operator	12.50%	20,787
1972	American Smelting and Refining Co.	Operator	37.50%	71,327
	Callahan Mining Corp.	Owner	50.00%	95,103
	Day Mines, Inc.	Operator	12.50%	23,776
1973	American Smelting and Refining Co.	Operator	37.50%	75,342
	Callahan Mining Corp.	Owner	50.00%	100,456
	Day Mines, Inc.	Operator	12.50%	25,114
1974	American Smelting and Refining Co.	Operator	37.50%	66,336
	Callahan Mining Corp.	Owner	50.00%	88,448
	Day Mines, Inc.	Operator	12.50%	22,112
1975	American Smelting and Refining Co.	Operator	37.50%	66,893
	Callahan Mining Corp.	Owner	50.00%	89,191
	Day Mines, Inc.	Operator	12.50%	22,298
1976	American Smelting and Refining Co.	Operator	37.50%	68,352
	Callahan Mining Corp.	Owner	50.00%	91,136
	Day Mines, Inc.	Operator	12.50%	22,784
1977	American Smelting and Refining Co.	Operator	37.50%	66,639
	Callahan Mining Corp.	Owner	50.00%	88,852
	Day Mines, Inc.	Operator	12.50%	22,213
1978	American Smelting and Refining Co.	Operator	37.50%	66,060
	Callahan Mining Corp.	Owner	50.00%	88,080

1978	Day Mines, Inc.	Operator	12.50%	22,020
1979	American Smelting and Refining Co.	Operator	37.50%	66,352
	Callahan Mining Corp.	Owner	50.00%	88,470
	Day Mines, Inc.	Operator	12.50%	22,117
1980	American Smelting and Refining Co.	Operator	37.50%	71,382
	Callahan Mining Corp.	Owner	50.00%	95,176
	Day Mines, Inc.	Operator	12.50%	23,794

Total Short Tons of Mined Ore:	3,872,535
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Total Short Tons from this mine according to Bennett and Mitchell:	3,872,524
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Callahan Mining Corp.	1,649,727	42.60%
American Smelting and Refining Co.	1,562,390	40.35%
Day Mines, Inc.	520,797	13.45%
Callahan Zinc-Lead Co.	102,110	2.64%
Vulcan Silver and Lead Co.	37,511	0.97%

Draft Mine Production Report

Gold Hunter Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Gold Hunter Mining and Smelting Co.	Owner	43,553
1902	Gold Hunter Mining and Smelting Co.	Owner	34,871
1903	Gold Hunter Mining and Smelting Co.	Owner	34,331
1904	Gold Hunter Mining and Smelting Co.	Owner	11,760
1905	Gold Hunter Mining and Smelting Co.	Owner	31,930
1906	Gold Hunter Mining and Smelting Co.	Owner	47,357
1907	Gold Hunter Mining and Smelting Co.	Owner	49,453
1908	Gold Hunter Mining and Smelting Co.	Owner	37,667
1909	Gold Hunter Mining and Smelting Co.	Owner	61,979
1910	Gold Hunter Mining and Smelting Co.	Owner	82,481
1911	Gold Hunter Mining and Smelting Co.	Owner	86,190
1912	Gold Hunter Mining and Smelting Co.	Owner	114,803
1913	Gold Hunter Mining and Smelting Co.	Owner	114,025
1914	Gold Hunter Mining and Smelting Co.	Owner	114,737
1915	Gold Hunter Mining and Smelting Co.	Owner	118,764
1916	Gold Hunter Mining and Smelting Co.	Owner	119,490
1917	Gold Hunter Mining and Smelting Co.	Owner	122,424
1918	Gold Hunter Mining and Smelting Co.	Owner	151,595
1919	Gold Hunter Mining and Smelting Co.	Owner	132,921
1920	Gold Hunter Mining and Smelting Co.	Owner	160,027
1921	Gold Hunter Mining and Smelting Co.	Owner	5,373
1922	Gold Hunter Mining and Smelting Co.	Owner	15,690
1923	Gold Hunter Mining and Smelting Co.	Owner	28,760
1924	Gold Hunter Mining and Smelting Co.	Owner	104,633
1925	Gold Hunter Mines, Inc.	Owner	123,125
1926	Gold Hunter Mines, Inc.	Owner	119,915
1927	Gold Hunter Mines, Inc.	Owner	130,742
1928	Gold Hunter Mines, Inc.	Owner	133,160
1929	Gold Hunter Mines, Inc.	Owner	115,522
1930	Gold Hunter Mines, Inc.	Owner	81,193
1933	Gold Hunter Mines, Inc.	Owner	18,300
1934	Gold Hunter Mines, Inc.	Owner	36,000
1935	Gold Hunter Mines, Inc.	Owner	36,000
1936	Gold Hunter Mines, Inc.	Owner	46,750
1937	Gold Hunter Mines, Inc.	Owner	57,000
1938	Gold Hunter Mines, Inc.	Owner	34,000
1939	Gold Hunter Mines, Inc.	Owner	36,143
1940	Gold Hunter Mines, Inc.	Owner	38,500
1941	Gold Hunter Mines, Inc.	Owner	52,071
1942	Gold Hunter Mines, Inc.	Owner	65,417
1943	Gold Hunter Mines, Inc.	Owner	52,760
1944	Gold Hunter Mines, Inc.	Owner	46,200
1945	Gold Hunter Mines, Inc.	Owner	39,589
1946	Gold Hunter Mines, Inc.	Owner	47,180

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1947	Gold Hunter Mines, Inc.	Owner	100.00%	46,753
1948	Gold Hunter Mines, Inc.	Owner	100.00%	42,077
1949	Gold Hunter Mines, Inc.	Owner	100.00%	23,060
1950	Gold Hunter Mines, Inc.	Owner	100.00%	1,370
1951	Gold Hunter Mines, Inc.	Owner	100.00%	700
1952	Gold Hunter Mines, Inc.	Owner	100.00%	378
1954	Gold Hunter Mines, Inc.	Owner	100.00%	52

Total Short Tons of Mined Ore: 3,248,771

**Total Short Tons from this mine
according to Bennett and Mitchell:** 3,260,750

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Gold Hunter Mining and Smelting Co.	1,824,814	56.17%
Gold Hunter Mines, Inc.	1,423,957	43.83%

Draft Mine Production Report

Hecla Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Hecla Mining Co.	Owner 100.00%	10,230
1902	Hecla Mining Co.	Owner 100.00%	46,021
1903	Hecla Mining Co.	Owner 100.00%	71,940
1904	Hecla Mining Co.	Owner 100.00%	79,475
1905	Hecla Mining Co.	Owner 100.00%	96,918
1906	Hecla Mining Co.	Owner 100.00%	103,228
1907	Hecla Mining Co.	Owner 100.00%	102,494
1908	Hecla Mining Co.	Owner 100.00%	59,201
1909	Hecla Mining Co.	Owner 100.00%	108,505
1910	Hecla Mining Co.	Owner 100.00%	106,240
1911	Hecla Mining Co.	Owner 100.00%	109,497
1912	Hecla Mining Co.	Owner 100.00%	107,897
1913	Hecla Mining Co.	Owner 100.00%	105,926
1914	Hecla Mining Co.	Owner 100.00%	95,163
1915	Hecla Mining Co.	Owner 100.00%	120,282
1916	Hecla Mining Co.	Owner 100.00%	195,004
1917	Hecla Mining Co.	Owner 100.00%	307,200
1918	Hecla Mining Co.	Owner 100.00%	315,440
1919	Hecla Mining Co.	Owner 100.00%	182,554
1920	Hecla Mining Co.	Owner 100.00%	195,938
1921	Hecla Mining Co.	Owner 100.00%	226,384
1922	Hecla Mining Co.	Owner 100.00%	250,651
1923	Hecla Mining Co.	Owner 100.00%	145,441
1924	Hecla Mining Co.	Owner 100.00%	229,789
1925	Hecla Mining Co.	Owner 100.00%	292,068
1926	Hecla Mining Co.	Owner 100.00%	299,926
1927	Hecla Mining Co.	Owner 100.00%	268,085
1928	Hecla Mining Co.	Owner 100.00%	303,611
1929	Hecla Mining Co.	Owner 100.00%	255,505
1930	Hecla Mining Co.	Owner 100.00%	253,629
1931	Hecla Mining Co.	Owner 100.00%	194,320
1932	Hecla Mining Co.	Owner 100.00%	140,567
1933	Hecla Mining Co.	Owner 100.00%	142,012
1934	Hecla Mining Co.	Owner 100.00%	178,096
1935	Hecla Mining Co.	Owner 100.00%	202,563
1936	Hecla Mining Co.	Owner 100.00%	217,993
1937	Hecla Mining Co.	Owner 100.00%	250,635
1938	Hecla Mining Co.	Owner 100.00%	231,848
1939	Hecla Mining Co.	Owner 100.00%	209,241
1940	Hecla Mining Co.	Owner 100.00%	212,357
1941	Hecla Mining Co.	Owner 100.00%	211,944
1942	Hecla Mining Co.	Owner 100.00%	280,693
1943	Hecla Mining Co.	Owner 100.00%	140,400
1944	Hecla Mining Co.	Owner 100.00%	26,055

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1945	Hecla Mining Co.	Owner	100.00%	512
1946	Hecla Mining Co.	Owner	100.00%	477
1947	Hecla Mining Co.	Owner	100.00%	579
1948	Hecla Mining Co.	Owner	100.00%	375
1949	Hecla Mining Co.	Owner	100.00%	278
1950	Hecla Mining Co.	Owner	100.00%	1,000
1951	Hecla Mining Co.	Owner	100.00%	298
1969	Hecla Mining Co.	Owner	100.00%	20

Total Short Tons of Mined Ore:	7,686,505
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Total Short Tons from this mine according to Bennett and Mitchell:	7,686,967
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hecla Mining Co.	7,686,505	100.00%
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Draft Mine Production Report

Hercules Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1901	Hercules Mining Co.	Owner 100.00%	362
1902	Hercules Mining Co.	Owner 100.00%	4,998
1903	Hercules Mining Co.	Owner 100.00%	10,043
1904	Hercules Mining Co.	Owner 100.00%	12,271
1905	Hercules Mining Co.	Owner 100.00%	11,500
1906	Hercules Mining Co.	Owner 100.00%	59,176
1907	Hercules Mining Co.	Owner 100.00%	77,964
1908	Hercules Mining Co.	Owner 100.00%	94,115
1909	Hercules Mining Co.	Owner 100.00%	89,194
1910	Hercules Mining Co.	Owner 100.00%	95,635
1911	Hercules Mining Co.	Owner 100.00%	153,161
1912	Hercules Mining Co.	Owner 100.00%	185,226
1913	Hercules Mining Co.	Owner 100.00%	140,905
1914	Hercules Mining Co.	Owner 100.00%	204,364
1915	Hercules Mining Co.	Owner 100.00%	212,836
1916	Hercules Mining Co.	Owner 100.00%	289,285
1917	Hercules Mining Co.	Owner 100.00%	380,721
1918	Hercules Mining Co.	Owner 100.00%	255,323
1919	Hercules Mining Co.	Owner 100.00%	93,368
1920	Hercules Mining Co.	Owner 100.00%	276,490
1921	Hercules Mining Co.	Owner 100.00%	75,840
1922	Hercules Mining Co.	Owner 100.00%	88,357
1923	Hercules Mining Co.	Owner 100.00%	235,601
1924	Hercules Mining Co.	Owner 100.00%	215,256
1925	Hercules Mining Co.	Owner 100.00%	21,228
1928	Hercules Mining Co.	Owner 100.00%	2,680
1929	Hercules Mining Co.	Owner 100.00%	5,771
1931	Hercules Mining Co.	Owner 100.00%	90
1933	Hercules Mining Co.	Owner 100.00%	25
1934	Hercules Mining Co.	Owner 100.00%	34
1935	Hercules Mining Co.	Owner 100.00%	35
1937	Hercules Mining Co.	Owner 100.00%	52
1938	Hercules Mining Co.	Owner 100.00%	20
1941	Hercules Mining Co.	Owner 100.00%	29
1945	Hercules Mining Co.	Owner 100.00%	2,088
1946	Hercules Mining Co.	Owner 100.00%	8,022
1947	Day Mines, Inc.	Owner 100.00%	11,163
1948	Day Mines, Inc.	Owner 100.00%	4,492
1949	Day Mines, Inc.	Owner 100.00%	8,036
1950	Day Mines, Inc.	Owner 100.00%	17,084
1951	Day Mines, Inc.	Owner 100.00%	24,395
1952	Day Mines, Inc.	Owner 100.00%	32,152
1953	Day Mines, Inc.	Owner 100.00%	7,598
1954	Day Mines, Inc.	Owner 100.00%	16,257

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1955	Day Mines, Inc.	Owner	100.00%	22,109
1956	Day Mines, Inc.	Owner	100.00%	18,004
1957	Day Mines, Inc.	Owner	100.00%	25,782
1958	Day Mines, Inc.	Owner	100.00%	12,272
1959	Day Mines, Inc.	Owner	100.00%	16,565
1960	Day Mines, Inc.	Owner	100.00%	1,008
1962	Day Mines, Inc.	Owner	100.00%	381
1964	Day Mines, Inc.	Owner	100.00%	104
1965	Day Mines, Inc.	Owner	100.00%	45

Total Short Tons of Mined Ore:	3,519,512
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Total Short Tons from this mine according to Bennett and Mitchell:	3,519,592
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hercules Mining Co.	3,302,065	93.82%
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Day Mines, Inc.	217,447	6.18%
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Draft Mine Production Report

Hummingbird Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1926	Hummingbird Mining Co.	Owner 100.00%	3,125
1927	Hummingbird Mining Co.	Owner 100.00%	3,123
1928	Hummingbird Mining Co.	Owner 100.00%	3,123
1929	Hummingbird Mining Co.	Owner 100.00%	3,123
1930	Hummingbird Mining Co.	Owner 100.00%	3,123
1931	Hummingbird Mining Co.	Owner 100.00%	3,123
Total Short Tons of Mined Ore:			18,740
Total Short Tons from this mine according to Bennett and Mitchell:			18,740

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Hummingbird Mining Co.	18,740 100.00%

Draft Mine Production Report

Idora Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1908	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1909	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1910	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1911	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1912	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1913	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1914	Idora Hill Mining Co., Ltd.	Owner	100.00% 132
1915	Idora Mining Co., Ltd.	Owner	100.00% 132
1916	Idora Mining Co., Ltd.	Owner	100.00% 132
1917	Idora Mining Co., Ltd.	Owner	100.00% 132
1918	Idora Mining Co., Ltd.	Owner	100.00% 132
1919	Idora Mining Co., Ltd.	Owner	100.00% 133
1920	Idora Mining Co., Ltd.	Owner	100.00% 133
1921	Idora Mining Co., Ltd.	Owner	100.00% 133
1922	Idora Mining Co., Ltd.	Owner	100.00% 133
1923	Idora Mining Co., Ltd.	Owner	100.00% 133
1924	Idora Mining Co., Ltd.	Owner	100.00% 133
1925	Idora Mining Co., Ltd.	Owner	100.00% 133
1926	Idora Mining Co., Ltd.	Owner	100.00% 133
1927	Idora Mining Co., Ltd.	Owner	100.00% 133
1928	Idora Mining Co., Ltd.	Owner	100.00% 133
1929	Idora Mining Co., Ltd.	Owner	100.00% 133
1930	Idora Mining Co., Ltd.	Owner	100.00% 133
1931	Idora Mining Co., Ltd.	Owner	100.00% 133
1932	Idora Mining Co., Ltd.	Owner	100.00% 133
1933	Idora Mining Co., Ltd.	Owner	100.00% 133
1934	Idora Mining Co., Ltd.	Owner	100.00% 133
1935	Idora Mining Co., Ltd.	Owner	100.00% 133
1936	Idora Mining Co., Ltd.	Owner	100.00% 133
1937	Idora Mining Co., Ltd.	Owner	100.00% 133
1938	Idora Mining Co., Ltd.	Owner	100.00% 133
1939	Idora Mining Co., Ltd.	Owner	100.00% 133
1940	Idora Mining Co., Ltd.	Owner	100.00% 133
1941	Idora Mining Co., Ltd.	Owner	100.00% 133
1942	Idora Mining Co., Ltd.	Owner	100.00% 133
1943	Monitor Mining Co.	Owner	100.00% 133
1944	Monitor Mining Co.	Owner	100.00% 133
1945	Monitor Mining Co.	Owner	100.00% 133
1946	Monitor Mining Co.	Owner	100.00% 133
1947	Monitor Mining Co.	Owner	100.00% 133
1948	Monitor Mining Co.	Owner	100.00% 133
1949	Monitor Mining Co.	Owner	100.00% 133

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Total Short Tons of Mined Ore:	5,707
Total Short Tons from this mine according to Bennett and Mitchell:	5,707

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Idora Mining Co., Ltd.	3,720	65.18%
Idora Hill Mining Co., Ltd.	1,056	18.50%
Monitor Mining Co.	931	16.31%

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Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	100.00% 116
1907	Various Interstate-Callahan Mine Owners	Owner	100.00% 391
1908	Various Interstate-Callahan Mine Owners	Owner	100.00% 223
1909	Various Interstate-Callahan Mine Owners	Owner	100.00% 297
1910	Various Interstate-Callahan Mine Owners	Owner	100.00% 195
1913	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	100.00% 54,135
1920	Callahan Zinc-Lead Co.	Owner	100.00% 129,833
1922	Callahan Zinc-Lead Co.	Owner	100.00% 20,516
1923	Callahan Zinc-Lead Co.	Owner	100.00% 114,179
1924	Callahan Zinc-Lead Co.	Owner	100.00% 24
1937	Callahan Zinc-Lead Co.	Owner	100.00% 16,950
1938	Callahan Zinc-Lead Co.	Owner	100.00% 3,900
1939	Callahan Zinc-Lead Co.	Owner	100.00% 3,200
1940	Callahan Zinc-Lead Co.	Owner	100.00% 17,616
1941	Callahan Zinc-Lead Co.	Owner	100.00% 46,000
1942	Callahan Zinc-Lead Co.	Owner	100.00% 46,870
1943	Callahan Zinc-Lead Co.	Owner	100.00% 25,100
1944	Callahan Zinc-Lead Co.	Owner	100.00% 8,230
1945	Monitor Mining Co.	Owner	100.00% 10,070
1946	Monitor Mining Co.	Owner	100.00% 3,859
1948	Day Mines, Inc.	Owner	100.00% 21,634
1949	Day Mines, Inc.	Owner	100.00% 16,672
1950	Day Mines, Inc.	Owner	50.00% 3,893
	Zanetti Bros.	Operator	50.00% 3,893
1951	Day Mines, Inc.	Owner	100.00% 7,185
1961	Day Mines, Inc.	Owner	50.00% 2,025
	Zanetti Bros.	Operator	50.00% 2,025
1962	Day Mines, Inc.	Owner	50.00% 28,000
	Zanetti Bros.	Operator	50.00% 28,000
1971	Day Mines, Inc.	Owner	100.00% 18,751
1972	Day Mines, Inc.	Owner	100.00% 20,259
1973	Day Mines, Inc.	Owner	100.00% 20,674
1974	Day Mines, Inc.	Owner	100.00% 22,118
1975	Day Mines, Inc.	Owner	100.00% 19,533
1976	Day Mines, Inc.	Owner	100.00% 21,027
1977	Day Mines, Inc.	Owner	100.00% 3,328

Total Short Tons of Mined Ore:	1,423,619
Total Short Tons from this mine according to Bennett and Mitchell:	1,423,619

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Consolidated Callahan Interstate Mining Co.	737,034	51.77%
Callahan Zinc-Lead Co.	432,418	30.37%
Day Mines, Inc.	205,099	14.41%
Zanetti Bros.	33,918	2.38%
Monitor Mining Co.	13,929	0.98%
Various Interstate-Callahan Mine Owners	1,222	0.09%

Draft Mine Production Report

Lucky Friday Mine

Drainage: South Fork of CDA above Canyon Creek.

Year	Owner / Operator	Role	Short Tons of Mined Ore
1938	Lucky Friday Mining Co.	Owner	100.00% 7
1942	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 5,250
1943	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 7,072
1944	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 4,581
1945	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 2,900
1946	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 3,375
1947	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 11,257
1948	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 8,146
1949	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 15,083
1950	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 14,971
1951	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 16,000
1952	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 23,390
1953	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 21,820
1954	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 31,653
1955	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 28,312
1956	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 41,457
1957	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 39,893
1958	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 55,176
1959	Lucky Friday Silver-Lead Mines Co.	Owner	100.00% 69,428
1960	Hecla Mining Co.	Operator	50.00% 66,862
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 66,862
1961	Hecla Mining Co.	Operator	50.00% 64,430
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 64,430
1962	Hecla Mining Co.	Operator	50.00% 90,567
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 90,567
1963	Hecla Mining Co.	Operator	50.00% 91,169
	Lucky Friday Silver-Lead Mines Co.	Owner	50.00% 91,169
1964	Hecla Mining Co.	Owner	100.00% 182,704
1965	Hecla Mining Co.	Owner	100.00% 181,260
1966	Hecla Mining Co.	Owner	100.00% 179,716
1967	Hecla Mining Co.	Owner	100.00% 145,471
1968	Hecla Mining Co.	Owner	100.00% 95,923
1969	Hecla Mining Co.	Owner	100.00% 183,785
1970	Hecla Mining Co.	Owner	100.00% 200,448
1971	Hecla Mining Co.	Owner	100.00% 213,394
1972	Hecla Mining Co.	Owner	100.00% 192,020
1973	Hecla Mining Co.	Owner	100.00% 176,859
1974	Hecla Mining Co.	Owner	100.00% 165,695
1975	Hecla Mining Co.	Owner	100.00% 173,245
1976	Hecla Mining Co.	Owner	100.00% 186,520
1977	Hecla Mining Co.	Owner	100.00% 182,682
1978	Hecla Mining Co.	Owner	100.00% 156,863
1979	Hecla Mining Co.	Owner	100.00% 171,934
1980	Hecla Mining Co.	Owner	100.00% 184,410

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Total Short Tons of Mined Ore:	3,998,754
Total Short Tons from this mine according to Bennett and Mitchell:	3,998,747

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Hecla Mining Co.	3,285,956	82.17%
Lucky Friday Silver-Lead Mines Co.	712,791	17.83%
Lucky Friday Mining Co.	7	0.00%

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Draft Mine Production Report

Marsh Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1908	Various Marsh Mine Owners	Owner	100.00% 28
1911	Marsh Mining Co.	Owner	100.00% 5,962
1912	Marsh Mining Co.	Owner	100.00% 18,582
1913	Marsh Mining Co.	Owner	100.00% 24,545
1914	Marsh Mining Co.	Owner	100.00% 17,242
1915	Marsh Mining Co.	Owner	100.00% 25,673
1916	Marsh Mines Consolidated Co.	Owner	100.00% 14,308
1917	Marsh Mines Consolidated Co.	Owner	100.00% 17,057
1918	Marsh Mines Consolidated Co.	Owner	100.00% 3,020
1920	Marsh Mines Consolidated Co.	Owner	100.00% 68
1922	Marsh Mines Consolidated Co.	Owner	100.00% 61
1923	Marsh Mines Consolidated Co.	Owner	100.00% 839
1924	Marsh Mines Consolidated Co.	Owner	100.00% 1,092
1925	Marsh Mines Consolidated Co.	Owner	100.00% 328
Total Short Tons of Mined Ore:			128,805
Total Short Tons from this mine according to Bennett and Mitchell:			128,805

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Marsh Mining Co.	92,004 71.43%
Marsh Mines Consolidated Co.	36,773 28.55%
Various Marsh Mine Owners	28 0.02%

Draft Mine Production Report

Morning Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1885	Various Morning Mine Owners	Owner 100.00%	115,765
1886	Various Morning Mine Owners	Owner 100.00%	115,765
1887	Various Morning Mine Owners	Owner 100.00%	115,765
1888	Various Morning Mine Owners	Owner 100.00%	115,766
1889	Various Morning Mine Owners	Owner 100.00%	115,766
1890	Various Morning Mine Owners	Owner 100.00%	115,766
1891	Various Morning Mine Owners	Owner 100.00%	115,766
1892	Various Morning Mine Owners	Owner 100.00%	115,766
1893	Various Morning Mine Owners	Owner 100.00%	115,766
1894	Various Morning Mine Owners	Owner 100.00%	115,766
1895	Various Morning Mine Owners	Owner 100.00%	115,766
1896	Various Morning Mine Owners	Owner 100.00%	115,766
1897	Various Morning Mine Owners	Owner 100.00%	115,766
1898	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1899	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1900	Larson/Greenough/Kilmer	Owner 100.00%	115,766
1901	Larson/Greenough/Kilmer	Owner 100.00%	179,170
1902	Larson/Greenough/Kilmer	Owner 100.00%	209,852
1903	Larson/Greenough/Kilmer	Owner 100.00%	236,410
1904	Larson/Greenough/Kilmer	Owner 100.00%	235,775
1905	Federal Mining & Smelting	Owner 100.00%	262,734
1906	Federal Mining & Smelting	Owner 100.00%	338,720
1907	Federal Mining & Smelting	Owner 100.00%	297,500
1908	Federal Mining & Smelting	Owner 100.00%	189,975
1909	Federal Mining & Smelting	Owner 100.00%	360,204
1910	Federal Mining & Smelting	Owner 100.00%	335,816
1911	Federal Mining & Smelting	Owner 100.00%	384,600
1912	Federal Mining & Smelting	Owner 100.00%	402,600
1913	Federal Mining & Smelting	Owner 100.00%	387,932
1914	Federal Mining & Smelting	Owner 100.00%	202,400
1915	Federal Mining & Smelting	Owner 100.00%	250,260
1916	Federal Mining & Smelting	Owner 100.00%	444,932
1917	Federal Mining & Smelting	Owner 100.00%	437,744
1918	Federal Mining & Smelting	Owner 100.00%	250,299
1919	Federal Mining & Smelting	Owner 100.00%	161,362
1920	Federal Mining & Smelting	Owner 100.00%	292,835
1921	Federal Mining & Smelting	Owner 100.00%	328,247
1922	Federal Mining & Smelting	Owner 100.00%	295,886
1923	Federal Mining & Smelting	Owner 100.00%	295,499
1924	Federal Mining & Smelting	Owner 100.00%	339,717
1925	Federal Mining & Smelting	Owner 100.00%	393,416
1926	Federal Mining & Smelting	Owner 100.00%	413,896
1927	Federal Mining & Smelting	Owner 100.00%	398,412
1928	Federal Mining & Smelting	Owner 100.00%	397,927

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1929	Federal Mining & Smelting	Owner	100.00%	386,210
1931	Federal Mining & Smelting	Owner	100.00%	232,485
1932	Federal Mining & Smelting	Owner	100.00%	102,407
1933	Federal Mining & Smelting	Owner	100.00%	197,257
1934	Federal Mining & Smelting	Owner	100.00%	220,037
1935	Federal Mining & Smelting	Owner	100.00%	298,568
1936	Federal Mining & Smelting	Owner	100.00%	314,772
1937	Federal Mining & Smelting	Owner	100.00%	351,742
1938	Federal Mining & Smelting	Owner	100.00%	262,950
1939	Federal Mining & Smelting	Owner	100.00%	377,723
1940	Federal Mining & Smelting	Owner	100.00%	336,960
1941	Federal Mining & Smelting	Owner	100.00%	271,137
1942	Federal Mining & Smelting	Owner	100.00%	236,902
1943	Federal Mining & Smelting	Owner	100.00%	234,667
1944	Federal Mining & Smelting	Owner	100.00%	276,769
1945	Federal Mining & Smelting	Owner	100.00%	250,311
1946	Federal Mining & Smelting	Owner	100.00%	145,497
1947	Federal Mining & Smelting	Owner	100.00%	108,729
1948	Federal Mining & Smelting	Owner	100.00%	77,061
1949	Federal Mining & Smelting	Owner	100.00%	87,853
1950	Federal Mining & Smelting	Owner	100.00%	108,189
1951	Federal Mining & Smelting	Owner	100.00%	88,817
1952	Federal Mining & Smelting	Owner	100.00%	83,104
1953	American Smelting and Refining Co.	Owner	100.00%	96,010
1954	American Smelting and Refining Co.	Owner	100.00%	49,468
1955	American Smelting and Refining Co.	Owner	100.00%	41,888
1956	American Smelting and Refining Co.	Owner	100.00%	45,995
1957	American Smelting and Refining Co.	Owner	100.00%	36,919
1958	American Smelting and Refining Co.	Owner	100.00%	10,864
1960	American Smelting and Refining Co.	Owner	100.00%	17
1961	Bunker Hill & S.M. & C. Co.	Owner	70.00%	84
	Hecla Mining Co.	Operator	30.00%	36
1962	Bunker Hill & S.M. & C. Co.	Owner	70.00%	14,473
	Hecla Mining Co.	Operator	30.00%	6,203
1963	Bunker Hill & S.M. & C. Co.	Owner	70.00%	37,486
	Hecla Mining Co.	Operator	30.00%	16,065
1964	Bunker Hill & S.M. & C. Co.	Owner	70.00%	73,388
	Hecla Mining Co.	Operator	30.00%	31,452
1965	Bunker Hill & S.M. & C. Co.	Owner	70.00%	89,662
	Hecla Mining Co.	Operator	30.00%	38,427
1966	Bunker Hill & S.M. & C. Co.	Operator	70.00%	105,071
	Hecla Mining Co.	Owner	30.00%	45,030
1967	Bunker Hill & S.M. & C. Co.	Operator	70.00%	85,074
	Hecla Mining Co.	Owner	30.00%	36,460
1968	Bunker Hill & S.M. & C. Co.	Operator	70.00%	63,095
	Hecla Mining Co.	Owner	30.00%	27,041
1969	Bunker Hill & S.M. & C. Co.	Operator	70.00%	61,016
	Hecla Mining Co.	Owner	30.00%	26,150
1970	Bunker Hill & S.M. & C. Co.	Operator	70.00%	89,338
	Hecla Mining Co.	Owner	30.00%	38,288
1971	Bunker Hill & S.M. & C. Co.	Operator	70.00%	114,225
	Hecla Mining Co.	Owner	30.00%	48,953

1972	Bunker Hill & S.M. & C. Co.	Operator	70.00%	132,870
	Hecla Mining Co.	Owner	30.00%	56,944
1973	Bunker Hill & S.M. & C. Co.	Operator	70.00%	140,822
	Hecla Mining Co.	Owner	30.00%	60,352
1974	Bunker Hill & S.M. & C. Co.	Operator	70.00%	137,354
	Hecla Mining Co.	Owner	30.00%	58,866
1975	Bunker Hill & S.M. & C. Co.	Operator	70.00%	136,339
	Hecla Mining Co.	Owner	30.00%	58,431
1976	Bunker Hill & S.M. & C. Co.	Operator	70.00%	159,297
	Hecla Mining Co.	Owner	30.00%	68,270
1977	Bunker Hill & S.M. & C. Co.	Operator	70.00%	158,709
	Hecla Mining Co.	Owner	30.00%	68,018
1978	Bunker Hill & S.M. & C. Co.	Operator	70.00%	160,444
	Hecla Mining Co.	Owner	30.00%	68,762
1979	Bunker Hill & S.M. & C. Co.	Operator	70.00%	148,107
	Hecla Mining Co.	Owner	30.00%	63,475

Total Short Tons of Mined Ore: 18,631,758

**Total Short Tons from this mine
according to Bennett and Mitchell:** 18,631,754

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Federal Mining & Smelting	12,913,060	69.31%
Bunker Hill & S.M. & C. Co.	1,906,854	10.23%
Various Morning Mine Owners	1,504,955	8.08%
Larson/Greenough/Kilmer	1,208,505	6.49%
Hecla Mining Co.	817,223	4.39%
American Smelting and Refining Co.	281,161	1.51%

Draft Mine Production Report

Mountain Goat Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role		Short Tons of Mined Ore
1955	Day Mines, Inc.	Owner	100.00%	21,542
1956	Day Mines, Inc.	Owner	100.00%	21,542
1957	Day Mines, Inc.	Owner	100.00%	21,542
1958	Day Mines, Inc.	Owner	100.00%	21,542
1959	Day Mines, Inc.	Owner	100.00%	21,542
1960	Day Mines, Inc.	Owner	100.00%	21,542
1961	Day Mines, Inc.	Owner	100.00%	21,542
1962	Day Mines, Inc.	Owner	100.00%	21,542
1963	Day Mines, Inc.	Owner	100.00%	21,542
1964	Day Mines, Inc.	Owner	100.00%	21,542
1965	Day Mines, Inc.	Owner	100.00%	21,542
1966	Day Mines, Inc.	Owner	100.00%	21,542
1967	Day Mines, Inc.	Owner	100.00%	21,542
1968	Day Mines, Inc.	Owner	100.00%	21,542
1969	Day Mines, Inc.	Owner	100.00%	21,543
1970	Day Mines, Inc.	Owner	100.00%	21,543

Total Short Tons of Mined Ore: 344,674

**Total Short Tons from this mine
according to Bennett and Mitchell:** 344,674

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Day Mines, Inc.	344,674	100.00%
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Draft Mine Production Report

National Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1914	National Copper Mining Co., Ltd.	Owner	100.00%	18,888
1915	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1916	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1917	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1918	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1919	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1920	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1921	National Copper Mining Co., Ltd.	Owner	100.00%	18,890
1922	National Copper Mining Co., Ltd.	Owner	100.00%	18,890

Total Short Tons of Mined Ore: 170,008

**Total Short Tons from this mine
according to Bennett and Mitchell:** 170,008

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

National Copper Mining Co., Ltd.	170,008	100.00%
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Draft Mine Production Report

Nepsic Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1943	Monitor Mining Co.	Owner	100.00% 2,095
1944	Monitor Mining Co.	Owner	100.00% 2,095
1945	Monitor Mining Co.	Owner	100.00% 2,095
1946	Monitor Mining Co.	Owner	100.00% 2,095
1947	Monitor Mining Co.	Owner	100.00% 2,095

Total Short Tons of Mined Ore: 10,475

**Total Short Tons from this mine
according to Bennett and Mitchell:** 10,475

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Monitor Mining Co.	10,475	100.00%
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Draft Mine Production Report

Polaris Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Polaris Development & Mining Co.	Owner 100.00%	11,457
1917	Polaris Development & Mining Co.	Owner 100.00%	11,457
1918	Polaris Development & Mining Co.	Owner 100.00%	11,457
1919	Polaris Development & Mining Co.	Owner 100.00%	11,457
1920	Polaris Development & Mining Co.	Owner 100.00%	11,457
1921	Polaris Development & Mining Co.	Owner 100.00%	11,457
1922	Polaris Development & Mining Co.	Owner 100.00%	11,457
1923	Polaris Development & Mining Co.	Owner 100.00%	11,457
1924	Polaris Development & Mining Co.	Owner 100.00%	11,457
1925	Polaris Development & Mining Co.	Owner 100.00%	11,457
1926	Polaris Development & Mining Co.	Owner 100.00%	11,457
1927	Polaris Development & Mining Co.	Owner 100.00%	11,457
1928	Polaris Development & Mining Co.	Owner 100.00%	11,457
1929	Polaris Development & Mining Co.	Owner 100.00%	11,457
1930	Polaris Development & Mining Co.	Owner 100.00%	11,457
1931	Polaris Development & Mining Co.	Owner 100.00%	11,456
1932	Polaris Development & Mining Co.	Owner 100.00%	11,456
1933	Polaris Development & Mining Co.	Owner 100.00%	11,456
1934	Polaris Development & Mining Co.	Owner 100.00%	11,456
1935	Polaris Development & Mining Co.	Owner 100.00%	11,456
1936	Polaris Development & Mining Co.	Owner 100.00%	11,456
1937	Polaris Mining Co.	Owner 100.00%	11,456
1938	Polaris Mining Co.	Owner 100.00%	11,456
1939	Polaris Mining Co.	Owner 100.00%	11,456
1940	Polaris Mining Co.	Owner 100.00%	11,456
1941	Polaris Mining Co.	Owner 100.00%	11,456
1942	Polaris Mining Co.	Owner 100.00%	11,456
1943	Polaris Mining Co.	Owner 100.00%	11,456
Total Short Tons of Mined Ore:			320,783
Total Short Tons from this mine according to Bennett and Mitchell:			320,783

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Polaris Development & Mining Co.	240,591 75.00%
Polaris Mining Co.	80,192 25.00%

Draft Mine Production Report

Rainbow Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1957	Polaris Mining Co.	Operator	50.00% 8,798
	Rainbow Mining and Milling Co.	Owner	50.00% 8,798
1958	Hecla Mining Co.	Operator	50.00% 3,793
	Rainbow Mining and Milling Co.	Owner	50.00% 3,793
Total Short Tons of Mined Ore:			25,182
Total Short Tons from this mine according to Bennett and Mitchell:			7,582

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Rainbow Mining and Milling Co.	12,591 50.00%
Polaris Mining Co.	8,798 34.94%
Hecla Mining Co.	3,793 15.06%

Draft Mine Production Report

Ray Jefferson Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Ray Jefferson Mine Owners	Owner 100.00%	130
Total Short Tons of Mined Ore:			130
Total Short Tons from this mine according to Bennett and Mitchell:			130

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Various Ray Jefferson Mine Owners	130 100.00%

Draft Mine Production Report

Rex Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Rex Mining Co.	Owner 100.00%	3,408
1906	Rex Mining Co.	Owner 100.00%	7,255
1908	Rex Mining Co.	Owner 100.00%	2,984
1910	Rex Mining Co.	Owner 100.00%	5,440
1911	Rex Mining Co.	Owner 100.00%	8,204
1912	Rex Mining Co.	Owner 100.00%	34
1913	Rex Mining Co.	Owner 100.00%	11,868
1916	Rex Consolidated Mining Co.	Owner 100.00%	5,971
1917	Rex Consolidated Mining Co.	Owner 100.00%	32,116
1918	Rex Consolidated Mining Co.	Owner 100.00%	1,211
1919	Rex Consolidated Mining Co.	Owner 100.00%	106
1920	Rex Consolidated Mining Co.	Owner 100.00%	203
1921	Rex Consolidated Mining Co.	Owner 100.00%	53
1922	Rex Consolidated Mining Co.	Owner 100.00%	16
1923	Rex Consolidated Mining Co.	Owner 100.00%	29
1925	Rex Consolidated Mining Co.	Owner 100.00%	237
1926	Delaware Mines Corp.	Owner 100.00%	52
1927	Delaware Mines Corp.	Owner 100.00%	299
1928	Delaware Mines Corp.	Owner 100.00%	390
1929	Delaware Mines Corp.	Owner 100.00%	225
1930	Delaware Mines Corp.	Owner 100.00%	98
1942	Callahan Consolidated Mines Co.	Operator 50.00%	65
	Delaware Mines Corp.	Owner 50.00%	65
1943	Callahan Consolidated Mines Co.	Owner 100.00%	11,820
1944	Callahan Consolidated Mines Co.	Owner 100.00%	21,439
1945	Callahan Consolidated Mines Co.	Owner 100.00%	25,308
1946	Callahan Consolidated Mines Co.	Owner 100.00%	15,768
1949	Callahan Consolidated Mines Co.	Owner 100.00%	34,350
Total Short Tons of Mined Ore:			189,014
Total Short Tons from this mine according to Bennett and Mitchell:			154,441

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Callahan Consolidated Mines Co.	108,750 57.54%
Rex Consolidated Mining Co.	39,942 21.13%
Rex Mining Co.	39,193 20.74%
Delaware Mines Corp.	1,129 0.60%

Draft Mine Production Report

Sherman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1927	Sherman Lead Co.	Owner 100.00%	1,965
1928	Sherman Lead Co.	Owner 100.00%	37,365
1929	Sherman Lead Co.	Owner 100.00%	49,633
1930	Sherman Lead Co.	Owner 100.00%	29,847
1931	Sherman Lead Co.	Owner 100.00%	7,633
1937	Sherman Lead Co.	Owner 100.00%	20,981
1938	Sherman Lead Co.	Owner 100.00%	13,118
1939	Sherman Lead Co.	Owner 100.00%	3,996
1940	Sherman Lead Co.	Owner 100.00%	21,122
1941	Sherman Lead Co.	Owner 100.00%	52,066
1942	Sherman Lead Co.	Owner 100.00%	69,804
1943	Sherman Lead Co.	Owner 100.00%	56,217
1944	Sherman Lead Co.	Owner 100.00%	31,731
1945	Sherman Lead Co.	Owner 100.00%	26,627
1946	Sherman Lead Co.	Owner 100.00%	18,875
1947	Day Mines, Inc.	Owner 100.00%	33,678
1948	Day Mines, Inc.	Owner 100.00%	54,535
1949	Day Mines, Inc.	Owner 100.00%	55,647
1950	Day Mines, Inc.	Owner 100.00%	50,986
1951	Day Mines, Inc.	Owner 100.00%	9,517
1952	Day Mines, Inc.	Owner 100.00%	7,361
1953	Day Mines, Inc.	Owner 100.00%	4,792
1954	Day Mines, Inc.	Owner 100.00%	1,089
1955	Day Mines, Inc.	Owner 100.00%	326
1956	Day Mines, Inc.	Owner 100.00%	710
1957	Day Mines, Inc.	Owner 100.00%	137
1958	Day Mines, Inc.	Owner 100.00%	256
1959	Day Mines, Inc.	Owner 100.00%	29
1960	Day Mines, Inc.	Owner 100.00%	31
1963	Day Mines, Inc.	Owner 100.00%	89
1964	Day Mines, Inc.	Owner 100.00%	53
1965	Day Mines, Inc.	Owner 100.00%	328
1966	Day Mines, Inc.	Owner 100.00%	323
1967	Day Mines, Inc.	Owner 100.00%	156
1969	Day Mines, Inc.	Owner 100.00%	10
1970	Day Mines, Inc.	Owner 100.00%	38

Total Short Tons of Mined Ore:	661,071
Total Short Tons from this mine according to Bennett and Mitchell:	661,071

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Sherman Lead Co.	440,980	66.71%
Day Mines, Inc.	220,091	33.29%

Draft Mine Production Report

Silver Summit Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1948	Polaris Mining Co.	Operator	50.00% 2,774
	Silver Summit Mining Co.	Owner	50.00% 2,774
1949	Polaris Mining Co.	Operator	50.00% 3,420
	Silver Summit Mining Co.	Owner	50.00% 3,420
1950	Polaris Mining Co.	Operator	50.00% 24,946
	Silver Summit Mining Co.	Owner	50.00% 24,946
1951	Polaris Mining Co.	Operator	50.00% 26,325
	Silver Summit Mining Co.	Owner	50.00% 26,325
1952	Polaris Mining Co.	Operator	50.00% 45,549
	Silver Summit Mining Co.	Owner	50.00% 45,549
1953	Polaris Mining Co.	Owner	100.00% 49,483
1954	Polaris Mining Co.	Owner	100.00% 56,982
1955	Polaris Mining Co.	Owner	100.00% 64,371
1956	Polaris Mining Co.	Owner	100.00% 50,806
1957	Polaris Mining Co.	Owner	100.00% 50,304
1958	Polaris Mining Co.	Owner	100.00% 48,393
1959	Hecla Mining Co.	Owner	100.00% 29,422
1960	Hecla Mining Co.	Owner	100.00% 27,133
1961	Hecla Mining Co.	Owner	100.00% 27,547
1962	Hecla Mining Co.	Owner	100.00% 24,607
1963	Hecla Mining Co.	Owner	100.00% 20,048
1964	Hecla Mining Co.	Owner	100.00% 16,321
1965	Hecla Mining Co.	Owner	100.00% 34,764
1966	Hecla Mining Co.	Owner	100.00% 39,583
1967	Hecla Mining Co.	Owner	100.00% 26,869
1968	Hecla Mining Co.	Owner	100.00% 21,932
1969	Hecla Mining Co.	Owner	100.00% 4,175
Total Short Tons of Mined Ore:			798,765
Total Short Tons from this mine according to Bennett and Mitchell:			798,761

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Polaris Mining Co.	423,352 53.00%
Hecla Mining Co.	272,401 34.10%
Silver Summit Mining Co.	103,013 12.90%

Draft Mine Production Report

Silver Tip Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1941	Various Silver Tip Mine Owners	Owner 100.00%	1,592
1942	Various Silver Tip Mine Owners	Owner 100.00%	1,592
1943	Monitor Mining Co.	Owner 100.00%	1,592
1944	Monitor Mining Co.	Owner 100.00%	1,592
1945	Monitor Mining Co.	Owner 100.00%	1,592
1946	Monitor Mining Co.	Owner 100.00%	1,592
1947	Day Mines, Inc.	Owner 100.00%	1,592
1948	Day Mines, Inc.	Owner 100.00%	1,592
1949	Day Mines, Inc.	Owner 100.00%	1,592
1950	Day Mines, Inc.	Owner 100.00%	1,592
1951	Day Mines, Inc.	Owner 100.00%	1,592
1952	Day Mines, Inc.	Owner 100.00%	1,592
1953	Day Mines, Inc.	Owner 100.00%	1,593
1954	Day Mines, Inc.	Owner 100.00%	1,593
1955	Day Mines, Inc.	Owner 100.00%	1,593
1956	Day Mines, Inc.	Owner 100.00%	1,593
1957	Day Mines, Inc.	Owner 100.00%	1,593
1958	Day Mines, Inc.	Owner 100.00%	1,593
1959	Day Mines, Inc.	Owner 100.00%	1,593

Total Short Tons of Mined Ore: 30,255

**Total Short Tons from this mine
according to Bennett and Mitchell:** 30,255

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Day Mines, Inc.	20,703	68.43%
Monitor Mining Co.	6,368	21.05%
Various Silver Tip Mine Owners	3,184	10.52%

Draft Mine Production Report

Star Mine

Drainage: South Fork of CDA above Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1925	Bunker Hill Co.	Owner	50.00% 14,840
	Hecla Mining Co.	Owner	50.00% 14,840
1926	Bunker Hill Co.	Owner	50.00% 59,911
	Hecla Mining Co.	Owner	50.00% 59,911
1927	Bunker Hill Co.	Owner	50.00% 18,408
	Hecla Mining Co.	Owner	50.00% 18,408
1928	Bunker Hill Co.	Owner	50.00% 2,242
	Hecla Mining Co.	Owner	50.00% 2,242
1929	Bunker Hill Co.	Owner	50.00% 57,017
	Hecla Mining Co.	Owner	50.00% 57,017
1930	Bunker Hill Co.	Owner	50.00% 16,801
	Hecla Mining Co.	Owner	50.00% 16,801
1931	Bunker Hill Co.	Owner	50.00% 1,331
	Hecla Mining Co.	Owner	50.00% 1,331
1932	Bunker Hill Co.	Owner	50.00% 3,750
	Hecla Mining Co.	Owner	50.00% 3,750
1933	Bunker Hill Co.	Owner	50.00% 5,890
	Hecla Mining Co.	Owner	50.00% 5,890
1935	Bunker Hill Co.	Owner	50.00% 5,955
	Hecla Mining Co.	Owner	50.00% 5,955
1936	Bunker Hill Co.	Owner	50.00% 58,260
	Hecla Mining Co.	Owner	50.00% 58,260
1937	Bunker Hill Co.	Owner	50.00% 43,805
	Hecla Mining Co.	Owner	50.00% 43,805
1938	Bunker Hill Co.	Owner	50.00% 21,008
	Hecla Mining Co.	Owner	50.00% 21,008
1939	Bunker Hill Co.	Owner	50.00% 24,430
	Hecla Mining Co.	Owner	50.00% 24,430
1940	Bunker Hill Co.	Owner	50.00% 105,232
	Hecla Mining Co.	Owner	50.00% 105,232
1941	Bunker Hill Co.	Owner	50.00% 106,210
	Hecla Mining Co.	Owner	50.00% 106,210
1942	Bunker Hill Co.	Owner	50.00% 121,450
	Hecla Mining Co.	Owner	50.00% 121,450
1943	Bunker Hill Co.	Owner	50.00% 119,255
	Hecla Mining Co.	Owner	50.00% 119,255
1944	Bunker Hill Co.	Owner	50.00% 97,781
	Hecla Mining Co.	Owner	50.00% 97,781
1945	Bunker Hill Co.	Owner	50.00% 72,764
	Hecla Mining Co.	Owner	50.00% 72,764
1946	Bunker Hill Co.	Owner	50.00% 65,956
	Hecla Mining Co.	Owner	50.00% 65,956
1947	Bunker Hill Co.	Owner	50.00% 96,957
	Hecla Mining Co.	Owner	50.00% 96,957

11/14/97

1948	Bunker Hill Co.	Owner	50.00%	118,549
	Hecla Mining Co.	Owner	50.00%	118,549
1949	Bunker Hill Co.	Owner	50.00%	115,121
	Hecla Mining Co.	Owner	50.00%	115,121
1950	Bunker Hill Co.	Owner	50.00%	133,630
	Hecla Mining Co.	Owner	50.00%	133,630
1951	Bunker Hill Co.	Owner	50.00%	132,862
	Hecla Mining Co.	Owner	50.00%	132,862
1952	Bunker Hill Co.	Owner	50.00%	117,410
	Hecla Mining Co.	Owner	50.00%	117,410
1953	Bunker Hill Co.	Owner	50.00%	113,825
	Hecla Mining Co.	Owner	50.00%	113,825
1954	Bunker Hill Co.	Owner	50.00%	108,439
	Hecla Mining Co.	Owner	50.00%	108,439
1955	Bunker Hill Co.	Owner	50.00%	104,094
	Hecla Mining Co.	Owner	50.00%	104,094
1956	Bunker Hill Co.	Owner	50.00%	94,911
	Hecla Mining Co.	Operator	50.00%	94,911
1957	Bunker Hill Co.	Owner	50.00%	99,510
	Hecla Mining Co.	Operator	50.00%	99,510
1958	Bunker Hill Co.	Owner	50.00%	92,276
	Hecla Mining Co.	Operator	50.00%	92,276
1959	Bunker Hill Co.	Owner	50.00%	109,165
	Hecla Mining Co.	Operator	50.00%	109,165
1960	Bunker Hill Co.	Owner	50.00%	122,663
	Hecla Mining Co.	Operator	50.00%	122,663
1961	Bunker Hill Co.	Owner	70.00%	176,653
	Hecla Mining Co.	Owner	30.00%	75,708
1962	Bunker Hill Co.	Owner	70.00%	153,072
	Hecla Mining Co.	Owner	30.00%	65,602
1963	Bunker Hill Co.	Owner	70.00%	139,973
	Hecla Mining Co.	Owner	30.00%	59,989
1964	Bunker Hill Co.	Owner	70.00%	98,384
	Hecla Mining Co.	Owner	30.00%	42,164
1965	Bunker Hill Co.	Owner	70.00%	78,476
	Hecla Mining Co.	Owner	30.00%	33,632
1966	Bunker Hill Co.	Owner	70.00%	67,348
	Hecla Mining Co.	Owner	30.00%	28,863
1967	Bunker Hill Co.	Owner	70.00%	74,541
	Hecla Mining Co.	Owner	30.00%	31,946
1968	Bunker Hill Co.	Owner	70.00%	69,861
	Hecla Mining Co.	Owner	30.00%	29,940
1969	Bunker Hill Co.	Owner	70.00%	49,118
	Hecla Mining Co.	Owner	30.00%	21,051
1970	Bunker Hill Co.	Owner	70.00%	61,543
	Hecla Mining Co.	Owner	30.00%	26,376
1971	Bunker Hill Co.	Owner	70.00%	58,013
	Hecla Mining Co.	Owner	30.00%	24,863
1972	Bunker Hill Co.	Owner	70.00%	51,647
	Hecla Mining Co.	Owner	30.00%	22,134
1973	Bunker Hill Co.	Owner	70.00%	45,225
	Hecla Mining Co.	Owner	30.00%	19,382

1974	Bunker Hill Co.	Owner	70.00%	59,752
	Hecla Mining Co.	Owner	30.00%	25,608
1975	Bunker Hill Co.	Owner	70.00%	61,174
	Hecla Mining Co.	Owner	30.00%	26,217
1976	Bunker Hill Co.	Owner	70.00%	38,133
	Hecla Mining Co.	Owner	30.00%	16,343
1977	Bunker Hill Co.	Owner	70.00%	46,717
	Hecla Mining Co.	Owner	30.00%	20,022
1978	Bunker Hill Co.	Owner	70.00%	42,710
	Hecla Mining Co.	Owner	30.00%	18,304
1979	Bunker Hill Co.	Owner	70.00%	50,772
	Hecla Mining Co.	Owner	30.00%	21,759
1980	Bunker Hill Co.	Owner	70.00%	53,407
	Hecla Mining Co.	Owner	30.00%	22,889

Total Short Tons of Mined Ore:	7,272,725
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Total Short Tons from this mine according to Bennett and Mitchell:	7,259,687
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Bunker Hill Co.	4,058,225	55.80%
Hecla Mining Co.	3,214,500	44.20%

Draft Mine Production Report

Success Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Success Mining Co., Ltd.	Owner 100.00%	1,565
1906	Success Mining Co., Ltd.	Owner 100.00%	10,287
1907	Success Mining Co., Ltd.	Owner 100.00%	22,968
1908	Success Mining Co., Ltd.	Owner 100.00%	160
1909	Success Mining Co., Ltd.	Owner 100.00%	12,000
1910	Success Mining Co., Ltd.	Owner 100.00%	33,884
1911	Success Mining Co., Ltd.	Owner 100.00%	51,000
1912	Success Mining Co., Ltd.	Owner 100.00%	83,482
1913	Success Mining Co., Ltd.	Owner 100.00%	62,790
1914	Success Mining Co., Ltd.	Owner 100.00%	56,516
1915	Success Mining Co., Ltd.	Owner 100.00%	97,000
1916	Success Mining Co., Ltd.	Owner 100.00%	56,687
1917	Success Mining Co., Ltd.	Owner 100.00%	57,297
1918	Success Mining Co., Ltd.	Owner 100.00%	22,281
1919	Success Mining Co., Ltd.	Owner 100.00%	4,029
1920	Success Mining Co., Ltd.	Owner 100.00%	1,113
1921	Success Mining Co., Ltd.	Owner 100.00%	29
1922	Success Mining Co., Ltd.	Owner 100.00%	3,250
1923	Success Mining Co., Ltd.	Owner 100.00%	53,673
1924	Success Mining Co., Ltd.	Owner 100.00%	58,308
1925	Success Mining Co., Ltd.	Owner 100.00%	37,700
1926	Success Mining Co., Ltd.	Owner 100.00%	27,013
1927	Success Mining Co., Ltd.	Owner 100.00%	556
1928	Success Mining Co., Ltd.	Owner 100.00%	28
1929	Success Mining Co., Ltd.	Owner 100.00%	1,001
1930	Success Mining Co., Ltd.	Owner 100.00%	837
1931	Success Mining Co., Ltd.	Owner 100.00%	394
1936	Success Mining Co., Ltd.	Owner 100.00%	33,856
1939	Success Mining Co., Ltd.	Owner 100.00%	80
1940	Success Mining Co., Ltd.	Owner 100.00%	319
1941	Success Mining Co., Ltd.	Owner 100.00%	1,769
1942	Success Mining Co., Ltd.	Owner 100.00%	2,278
1943	Success Mining Co., Ltd.	Owner 100.00%	2,107
1944	Success Mining Co., Ltd.	Owner 100.00%	2,141
1945	Success Mining Co., Ltd.	Owner 100.00%	1,337
1946	Success Mining Co., Ltd.	Owner 100.00%	1,305
1947	Success Mining Co., Ltd.	Owner 100.00%	1,416
1948	Success Mining Co., Ltd.	Owner 100.00%	1,686
1949	Success Mining Co., Ltd.	Owner 100.00%	1,115
1950	Success Mining Co., Ltd.	Owner 100.00%	4,747
1951	Success Mining Co., Ltd.	Owner 100.00%	6,434
1952	Success Mining Co., Ltd.	Owner 100.00%	6,957

Total Short Tons of Mined Ore:	823,395
Total Short Tons from this mine according to Bennett and Mitchell:	789,704

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Success Mining Co., Ltd.	823,395 100.00%

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role		Short Tons of Mined Ore
1913	William Clark	Owner	100.00%	25
1922	Clark-Montana Realty Co.	Owner	100.00%	76
1923	Clark-Montana Realty Co.	Owner	100.00%	67
1925	Clark-Montana Realty Co.	Owner	100.00%	22
1940	Anaconda Co.	Owner	100.00%	5,603
1941	Anaconda Co.	Owner	100.00%	25,416
1942	Anaconda Co.	Owner	100.00%	20,200
1943	Anaconda Co.	Owner	100.00%	24,917
1944	Anaconda Co.	Owner	100.00%	22,547
1945	Anaconda Co.	Owner	100.00%	24,982
1946	Anaconda Co.	Owner	100.00%	27,656
1947	Anaconda Co.	Owner	100.00%	32,185
1948	Anaconda Co.	Owner	100.00%	26,704
1949	Anaconda Co.	Owner	50.00%	10,792
	Day Mines, Inc.	Operator	50.00%	10,792
1950	Anaconda Co.	Owner	50.00%	17,439
	Day Mines, Inc.	Operator	50.00%	17,439
1951	Anaconda Co.	Owner	34.00%	11,390
	Day Mines, Inc.	Operator	33.00%	11,055
	Zanetti Bros.	Operator	33.00%	11,055
1952	Anaconda Co.	Owner	33.00%	8,255
	Day Mines, Inc.	Operator	34.00%	8,505
	Zanetti Bros.	Operator	33.00%	8,255
1953	Anaconda Co.	Owner	33.00%	10,201
	Day Mines, Inc.	Operator	33.00%	10,201
	Zanetti Bros.	Operator	34.00%	10,510
1954	Anaconda Co.	Owner	34.00%	5,722
	Day Mines, Inc.	Operator	33.00%	5,553
	Zanetti Bros.	Operator	33.00%	5,553
1955	Anaconda Co.	Owner	33.00%	4,838
	Day Mines, Inc.	Operator	34.00%	4,984
	Zanetti Bros.	Operator	33.00%	4,838
1956	Anaconda Co.	Owner	33.00%	1,924
	Day Mines, Inc.	Operator	33.00%	1,924
	Zanetti Bros.	Operator	34.00%	1,982
1957	Anaconda Co.	Owner	34.00%	3,581
	Day Mines, Inc.	Operator	33.00%	3,476
	Zanetti Bros.	Operator	33.00%	3,476
1958	Anaconda Co.	Owner	33.00%	663
	Day Mines, Inc.	Operator	34.00%	683
	Zanetti Bros.	Operator	33.00%	663
1976	Anaconda Co.	Owner	33.00%	726
	Day Mines, Inc.	Operator	33.00%	726
	Zanetti Bros.	Operator	34.00%	748

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Total Short Tons of Mined Ore:	408,347
Total Short Tons from this mine according to Bennett and Mitchell:	355,032

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Anaconda Co.	285,739 69.97%
Day Mines, Inc.	75,338 18.45%
Zanetti Bros.	47,080 11.53%
Clark-Montana Realty Co.	165 0.04%
William Clark	25 0.01%

Draft Mine Production Report

Sunshine Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Blake Brothers	Owner	100.00% 25
1905	Blake Brothers	Owner	100.00% 28
1908	Blake Brothers	Owner	100.00% 28
1912	Blake Brothers	Owner	100.00% 92
1913	Blake Brothers	Owner	100.00% 77
1914	Blake Brothers	Owner	100.00% 358
1915	Blake Brothers	Owner	100.00% 193
1916	Blake Brothers	Owner	100.00% 403
1917	Blake Brothers	Owner	50.00% 1,244
	Yankee Girl Mining Co.	Owner	50.00% 1,244
1918	Blake Brothers	Owner	50.00% 336
	Yankee Girl Mining Co.	Owner	50.00% 336
1919	Blake Brothers	Owner	50.00% 138
	Yankee Girl Mining Co.	Owner	50.00% 138
1920	Blake Brothers	Owner	50.00% 303
	Yankee Girl Mining Co.	Owner	50.00% 303
1921	Blake Brothers	Owner	34.00% 283
	Sunshine Mining Co.	Operator	33.00% 274
	Yankee Girl Mining Co.	Owner	33.00% 274
1922	Blake Brothers	Owner	34.00% 731
	Sunshine Mining Co.	Operator	33.00% 709
	Yankee Girl Mining Co.	Owner	33.00% 709
1923	Blake Brothers	Owner	34.00% 895
	Sunshine Mining Co.	Operator	33.00% 868
	Yankee Girl Mining Co.	Owner	33.00% 868
1924	Blake Brothers	Owner	34.00% 6,467
	Sunshine Mining Co.	Operator	33.00% 6,277
	Yankee Girl Mining Co.	Owner	33.00% 6,277
1925	Blake Brothers	Owner	34.00% 8,869
	Sunshine Mining Co.	Operator	33.00% 8,608
	Yankee Girl Mining Co.	Owner	33.00% 8,608
1926	Sunshine Mining Co.	Owner	100.00% 21,435
1927	Sunshine Mining Co.	Owner	100.00% 40,000
1928	Sunshine Mining Co.	Owner	100.00% 1,838
1929	Sunshine Mining Co.	Owner	100.00% 62,392
1930	Sunshine Mining Co.	Owner	100.00% 147,948
1931	Sunshine Mining Co.	Owner	100.00% 183,441
1932	Sunshine Mining Co.	Owner	100.00% 151,883
1933	Sunshine Mining Co.	Owner	100.00% 109,010
1934	Sunshine Mining Co.	Owner	100.00% 108,606
1935	Sunshine Mining Co.	Owner	100.00% 160,417
1936	Sunshine Mining Co.	Owner	100.00% 215,955
1937	Sunshine Mining Co.	Owner	100.00% 255,800
1938	Sunshine Mining Co.	Owner	100.00% 317,984

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1939	Sunshine Mining Co.	Owner	100.00%	320,990
1940	Sunshine Mining Co.	Owner	100.00%	278,810
1941	Sunshine Mining Co.	Owner	100.00%	309,700
1942	Sunshine Mining Co.	Owner	100.00%	251,700
1943	Sunshine Mining Co.	Owner	100.00%	155,412
1944	Sunshine Mining Co.	Owner	100.00%	42,273
1945	Sunshine Mining Co.	Owner	100.00%	32,285
1946	Sunshine Mining Co.	Owner	100.00%	21,251
1947	Sunshine Mining Co.	Owner	100.00%	64,120
1948	Sunshine Mining Co.	Owner	100.00%	84,852
1949	Sunshine Mining Co.	Owner	100.00%	89,289
1950	Sunshine Mining Co.	Owner	100.00%	144,098
1951	Sunshine Mining Co.	Owner	100.00%	116,324
1952	Sunshine Mining Co.	Owner	100.00%	114,467
1953	Sunshine Mining Co.	Owner	100.00%	127,818
1954	Sunshine Mining Co.	Owner	100.00%	260,698
1955	Sunshine Mining Co.	Owner	100.00%	119,596
1956	Sunshine Mining Co.	Owner	100.00%	200,028
1957	Sunshine Mining Co.	Owner	100.00%	206,385
1958	Hecla Mining Co.	Operator	33.25%	77,128
	Silver Dollar	Operator	9.61%	22,292
	Sunshine Mining Co.	Owner	57.14%	132,544
1959	Hecla Mining Co.	Operator	33.25%	77,987
	Silver Dollar	Operator	9.61%	22,540
	Sunshine Mining Co.	Owner	57.14%	134,021
1960	Hecla Mining Co.	Operator	33.25%	77,254
	Silver Dollar	Operator	9.61%	22,328
	Sunshine Mining Co.	Owner	57.14%	132,760
1961	Hecla Mining Co.	Operator	33.25%	62,817
	Silver Dollar	Operator	9.61%	18,156
	Sunshine Mining Co.	Owner	57.14%	107,951
1962	Hecla Mining Co.	Operator	33.25%	45,149
	Silver Dollar	Operator	9.61%	13,049
	Sunshine Mining Co.	Owner	57.14%	77,588
1963	Hecla Mining Co.	Operator	33.25%	44,102
	Silver Dollar	Operator	9.61%	12,746
	Sunshine Mining Co.	Owner	57.14%	75,789
1964	Hecla Mining Co.	Operator	33.25%	43,823
	Silver Dollar	Operator	9.61%	12,666
	Sunshine Mining Co.	Owner	57.14%	75,310
1965	Hecla Mining Co.	Operator	33.25%	56,114
	Silver Dollar	Operator	9.61%	16,218
	Sunshine Mining Co.	Owner	57.14%	96,431
1966	Hecla Mining Co.	Operator	33.25%	63,435
	Silver Dollar	Operator	9.61%	18,334
	Sunshine Mining Co.	Owner	57.14%	109,013
1967	Hecla Mining Co.	Operator	33.25%	79,772
	Silver Dollar	Operator	9.61%	23,056
	Sunshine Mining Co.	Owner	57.14%	137,087
1968	Hecla Mining Co.	Operator	33.25%	83,820
	Silver Dollar	Operator	9.61%	24,226
	Sunshine Mining Co.	Owner	57.14%	144,044

1969	Hecla Mining Co.	Operator	33.25%	90,279
	Silver Dollar	Operator	9.61%	26,093
	Sunshine Mining Co.	Owner	57.14%	155,144
1970	Hecla Mining Co.	Operator	33.25%	84,082
	Silver Dollar	Operator	9.61%	24,302
	Sunshine Mining Co.	Owner	57.14%	144,495
1971	Hecla Mining Co.	Operator	33.25%	86,070
	Silver Dollar	Operator	9.61%	24,876
	Sunshine Mining Co.	Owner	57.14%	147,911
1972	Hecla Mining Co.	Operator	33.25%	34,316
	Silver Dollar	Operator	9.61%	9,918
	Sunshine Mining Co.	Owner	57.14%	58,972
1973	Hecla Mining Co.	Operator	33.25%	41,077
	Silver Dollar	Operator	9.61%	11,872
	Sunshine Mining Co.	Owner	57.14%	70,590
1974	Hecla Mining Co.	Operator	33.25%	60,530
	Silver Dollar	Operator	9.61%	17,495
	Sunshine Mining Co.	Owner	57.14%	104,021
1975	Hecla Mining Co.	Operator	33.25%	75,111
	Silver Dollar	Operator	9.61%	21,709
	Sunshine Mining Co.	Owner	57.14%	129,078
1976	Hecla Mining Co.	Operator	33.25%	15,251
	Silver Dollar	Operator	9.61%	4,408
	Sunshine Mining Co.	Owner	57.14%	26,210
1977	Hecla Mining Co.	Operator	33.25%	51,576
	Silver Dollar	Operator	9.61%	14,907
	Sunshine Mining Co.	Owner	57.14%	88,633
1978	Hecla Mining Co.	Operator	33.25%	66,783
	Silver Dollar	Operator	9.61%	19,302
	Sunshine Mining Co.	Owner	57.14%	114,766
1979	Hecla Mining Co.	Operator	33.25%	57,266
	Silver Dollar	Operator	9.61%	16,551
	Sunshine Mining Co.	Owner	57.14%	98,411
1980	Hecla Mining Co.	Operator	33.25%	9,493
	Silver Dollar	Operator	9.61%	2,744
	Sunshine Mining Co.	Owner	57.14%	16,313

Total Short Tons of Mined Ore:	8,932,868
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Total Short Tons from this mine according to Bennett and Mitchell:	9,800,584
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Sunshine Mining Co.	7,110,624	79.60%
Hecla Mining Co.	1,383,234	15.48%
Silver Dollar	399,786	4.48%
Blake Brothers	20,468	0.23%
Yankee Girl Mining Co.	18,757	0.21%

Draft Mine Production Report

Tamarack-Custer Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1905	Tamarack and Chesapeake Mining Co.	Owner	100.00% 122
1906	Tamarack and Chesapeake Mining Co.	Owner	100.00% 323
1907	Tamarack and Chesapeake Mining Co.	Owner	100.00% 309
1913	Tamarack and Custer Consolidated Mining	Owner	100.00% 48,124
1914	Tamarack and Custer Consolidated Mining	Owner	100.00% 82,084
1915	Tamarack and Custer Consolidated Mining	Owner	100.00% 101,577
1916	Tamarack and Custer Consolidated Mining	Owner	100.00% 62,281
1917	Tamarack and Custer Consolidated Mining	Owner	100.00% 67,308
1918	Tamarack and Custer Consolidated Mining	Owner	100.00% 113,866
1919	Tamarack and Custer Consolidated Mining	Owner	100.00% 58,108
1920	Tamarack and Custer Consolidated Mining	Owner	100.00% 143,884
1921	Tamarack and Custer Consolidated Mining	Owner	100.00% 36,928
1922	Tamarack and Custer Consolidated Mining	Owner	100.00% 31,776
1923	Tamarack and Custer Consolidated Mining	Owner	100.00% 113,011
1924	Tamarack and Custer Consolidated Mining	Owner	100.00% 106,044
1925	Tamarack and Custer Consolidated Mining	Owner	100.00% 168,845
1926	Tamarack and Custer Consolidated Mining	Owner	100.00% 140,042
1927	Tamarack and Custer Consolidated Mining	Owner	100.00% 48,695
1928	Tamarack and Custer Consolidated Mining	Owner	100.00% 96,810
1929	Tamarack and Custer Consolidated Mining	Owner	100.00% 83,922
1930	Tamarack and Custer Consolidated Mining	Owner	100.00% 20,334
1931	Tamarack and Custer Consolidated Mining	Owner	100.00% 1,961
1932	Tamarack and Custer Consolidated Mining	Owner	100.00% 1,080
1934	Tamarack and Custer Consolidated Mining	Owner	100.00% 32
1935	Tamarack and Custer Consolidated Mining	Owner	100.00% 104
1936	Tamarack and Custer Consolidated Mining	Owner	100.00% 129
1937	Tamarack and Custer Consolidated Mining	Owner	100.00% 22,213
1938	Tamarack and Custer Consolidated Mining	Owner	100.00% 7,300
1939	Tamarack and Custer Consolidated Mining	Owner	100.00% 10,997
1940	Tamarack and Custer Consolidated Mining	Owner	100.00% 56,178
1941	Tamarack and Custer Consolidated Mining	Owner	100.00% 99,476
1942	Tamarack and Custer Consolidated Mining	Owner	100.00% 110,080
1943	Tamarack and Custer Consolidated Mining	Owner	100.00% 118,867
1944	Tamarack and Custer Consolidated Mining	Owner	100.00% 100,605
1945	Tamarack and Custer Consolidated Mining	Owner	100.00% 70,801
1946	Tamarack and Custer Consolidated Mining	Owner	100.00% 77,007
1947	Day Mines, Inc.	Owner	100.00% 100,883
1948	Day Mines, Inc.	Owner	100.00% 89,537
1949	Day Mines, Inc.	Owner	100.00% 64,098
1950	Day Mines, Inc.	Owner	100.00% 67,401
1951	Day Mines, Inc.	Owner	100.00% 84,046
1952	Day Mines, Inc.	Owner	100.00% 74,771
1953	Day Mines, Inc.	Owner	100.00% 38,494
1954	Day Mines, Inc.	Owner	100.00% 19,516

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1955	Day Mines, Inc.	Owner	100.00%	14,592
1956	Day Mines, Inc.	Owner	100.00%	26,837
1957	Day Mines, Inc.	Owner	100.00%	19,559
1958	Day Mines, Inc.	Owner	100.00%	10,038
1960	Day Mines, Inc.	Owner	100.00%	3,884
1961	Day Mines, Inc.	Owner	100.00%	3,214
1967	Day Mines, Inc.	Owner	100.00%	2
1968	Day Mines, Inc.	Owner	100.00%	82
1977	Day Mines, Inc.	Owner	100.00%	1,295

Total Short Tons of Mined Ore:	2,819,472
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Total Short Tons from this mine according to Bennett and Mitchell:	2,819,472
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Tamarack and Custer Consolidated Mining Co.	2,200,469	78.05%
Day Mines, Inc.	618,249	21.93%
Tamarack and Chesapeake Mining Co.	754	0.03%

Draft Mine Production Report

Tiger-Poorman Mine

Drainage: Canyon Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore	
1884	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1885	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1886	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1887	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1888	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1889	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1890	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1891	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1892	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1893	Various Tiger-Poorman Owners	Owner	100.00%	10,707
1894	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1895	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1896	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1897	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1898	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1899	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1900	Various Tiger-Poorman Owners	Owner	100.00%	10,706
1901	Various Tiger-Poorman Owners	Owner	100.00%	141,107
1902	Various Tiger-Poorman Owners	Owner	100.00%	115,500
1903	Federal Mining & Smelting	Owner	100.00%	110,958
1904	Federal Mining & Smelting	Owner	100.00%	130,166
1905	Federal Mining & Smelting	Owner	100.00%	132,051
1906	Federal Mining & Smelting	Owner	100.00%	117,476
1907	Federal Mining & Smelting	Owner	100.00%	51,800
1908	Federal Mining & Smelting	Owner	100.00%	26,226
1909	Federal Mining & Smelting	Owner	100.00%	112,099
1910	Federal Mining & Smelting	Owner	100.00%	434
1912	Federal Mining & Smelting	Owner	100.00%	118
1913	Federal Mining & Smelting	Owner	100.00%	77
1914	Federal Mining & Smelting	Owner	100.00%	100
1915	Federal Mining & Smelting	Owner	100.00%	99
1916	Federal Mining & Smelting	Owner	100.00%	58
1917	Federal Mining & Smelting	Owner	100.00%	5,271
1918	Federal Mining & Smelting	Owner	100.00%	533
1919	Federal Mining & Smelting	Owner	100.00%	478
1941	Hecla Mining Co.	Owner	100.00%	76
1943	Hecla Mining Co.	Owner	100.00%	880
1951	Hecla Mining Co.	Owner	100.00%	1,064
1952	Hecla Mining Co.	Owner	100.00%	210

Total Short Tons of Mined Ore:	1,128,793
Total Short Tons from this mine according to Bennett and Mitchell:	1,128,793

Total Short Tons of Mined Ore per Owner/Operator:		Percentage of This Mine's Ore:
Federal Mining & Smelting	687,944	60.95%
Various Tiger-Poorman Owners	438,619	38.86%
Hecla Mining Co.	2,230	0.20%

Draft Mine Production Report

Tough Nut Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1943	Various Tough Nut Mine Owners	Owner 100.00%	1,448
Total Short Tons of Mined Ore:			1,448
Total Short Tons from this mine according to Bennett and Mitchell:			1,448

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Various Tough Nut Mine Owners	1,448 100.00%

Draft Mine Production Report

Tuscumbia Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1911	Tuscumbia Mining Co.	Owner 100.00%	274
1912	Tuscumbia Mining Co.	Owner 100.00%	274
1913	Tuscumbia Mining Co.	Owner 100.00%	274
1914	Tuscumbia Mining Co.	Owner 100.00%	274
1915	Tuscumbia Mining Co.	Owner 100.00%	274
1916	Tuscumbia Mining Co.	Owner 100.00%	274
1917	Tuscumbia Mining Co.	Owner 100.00%	274
1918	Tuscumbia Mining Co.	Owner 100.00%	274
1919	Tuscumbia Mining Co.	Owner 100.00%	274
1920	Tuscumbia Mining Co.	Owner 100.00%	274
1921	Tuscumbia Mining Co.	Owner 100.00%	274
1922	Tuscumbia Mining Co.	Owner 100.00%	274
1923	Tuscumbia Mining Co.	Owner 100.00%	274
1924	Tuscumbia Mining Co.	Owner 100.00%	274
1925	Tuscumbia Mining Co.	Owner 100.00%	274
1926	Tuscumbia Mining Co.	Owner 100.00%	274
1927	Tuscumbia Mining Co.	Owner 100.00%	274
1928	Tuscumbia Mining Co.	Owner 100.00%	274
1929	Tuscumbia Mining Co.	Owner 100.00%	275
1930	Tuscumbia Mining Co.	Owner 100.00%	275
1931	Tuscumbia Mining Co.	Owner 100.00%	275
1932	Tuscumbia Mining Co.	Owner 100.00%	275
1933	Tuscumbia Mining Co.	Owner 100.00%	275
1934	Tuscumbia Mining Co.	Owner 100.00%	275
1935	Tuscumbia Mining Co.	Owner 100.00%	275
1936	Tuscumbia Mining Co.	Owner 100.00%	275
1937	Tuscumbia Mining Co.	Owner 100.00%	275
1938	Various Tuscumbia Mine Owners	Owner 100.00%	275
1939	Various Tuscumbia Mine Owners	Owner 100.00%	275
1940	Various Tuscumbia Mine Owners	Owner 100.00%	275
1941	Various Tuscumbia Mine Owners	Owner 100.00%	275
1942	Various Tuscumbia Mine Owners	Owner 100.00%	275
1943	Monitor Mining Co.	Owner 100.00%	275
1944	Monitor Mining Co.	Owner 100.00%	275
1945	Monitor Mining Co.	Owner 100.00%	275
1946	Monitor Mining Co.	Owner 100.00%	275
1947	Day Mines, Inc.	Owner 100.00%	275
1948	Day Mines, Inc.	Owner 100.00%	275
1949	Day Mines, Inc.	Owner 100.00%	275
1950	Day Mines, Inc.	Owner 100.00%	275
1951	Day Mines, Inc.	Owner 100.00%	275
1952	Day Mines, Inc.	Owner 100.00%	275
1953	Day Mines, Inc.	Owner 100.00%	275
1954	Day Mines, Inc.	Owner 100.00%	275

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1955	Day Mines, Inc.	Owner	100.00%	275
1956	Day Mines, Inc.	Owner	100.00%	275

Total Short Tons of Mined Ore:			12,632
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Total Short Tons from this mine according to Bennett and Mitchell:			12,632
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Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
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Tuscumbia Mining Co.	7,407	58.64%
Day Mines, Inc.	2,750	21.77%
Various Tuscumbia Mine Owners	1,375	10.89%
Monitor Mining Co.	1,100	8.71%

Draft Mine Production Report

Western Union Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1920	Western Union Mining Co.	Owner 100.00%	146
1921	Western Union Mining Co.	Owner 100.00%	755
1922	Western Union Mining Co.	Owner 100.00%	998
1923	Western Union Mining Co.	Owner 100.00%	611
1924	Western Union Mining Co.	Owner 100.00%	426
1925	Western Union Mining Co.	Owner 100.00%	156
1926	Western Union Mining Co.	Owner 100.00%	2,237
1927	Western Union Mining Co.	Owner 100.00%	543
1929	Western Union Mining Co.	Owner 100.00%	41
1930	Western Union Mining Co.	Owner 100.00%	38
1939	Western Union Mining Co.	Owner 100.00%	47
1947	Day Mines, Inc.	Owner 100.00%	1,295
1948	Day Mines, Inc.	Owner 100.00%	3,880

Total Short Tons of Mined Ore: 11,173

**Total Short Tons from this mine
according to Bennett and Mitchell:** 11,173

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Western Union Mining Co.	5,998 53.68%
Day Mines, Inc.	5,175 46.32%

HIGHLAND SURPRISE

Draft Defendant Company Report

Highland Surprise Consolidated Mining Co.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
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Highland Surprise	1904 — 1907	518,600
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Total Tons of Mined Ore:	518,600
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Total Tons Mined in the CDA Basin from 1884 - 1980:	83,816,527
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Percent of CDA Basin Total:	0.62%
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The above defendant company is successor in interest to the following owner / operators:

Highland Surprise Consolidated Mining Co.

Surprise Mining & Milling Co., Ltd.

Various Highland Surprise Owners

Draft Mine Production Report

Highland Surprise Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Various Highland Surprise Owners	Owner	100.00% 18
1905	Various Highland Surprise Owners	Owner	100.00% 15
1907	Various Highland Surprise Owners	Owner	100.00% 250
1910	Surprise Mining & Milling Co., Ltd.	Owner	100.00% 89
1911	Surprise Mining & Milling Co., Ltd.	Owner	100.00% 3,200
1912	Surprise Mining & Milling Co., Ltd.	Owner	100.00% 1,608
1914	Highland Surprise Consolidated Mining Co.	Owner	100.00% 32
1915	Highland Surprise Consolidated Mining Co.	Owner	100.00% 700
1916	Highland Surprise Consolidated Mining Co.	Owner	100.00% 18,458
1917	Highland Surprise Consolidated Mining Co.	Owner	100.00% 20,324
1922	Highland Surprise Consolidated Mining Co.	Owner	100.00% 103
1923	Highland Surprise Consolidated Mining Co.	Owner	100.00% 221
1924	Highland Surprise Consolidated Mining Co.	Owner	100.00% 64
1925	Highland Surprise Consolidated Mining Co.	Owner	100.00% 11,751
1926	Highland Surprise Consolidated Mining Co.	Owner	100.00% 31,065
1927	Highland Surprise Consolidated Mining Co.	Owner	100.00% 12,695
1941	Highland Surprise Consolidated Mining Co.	Owner	100.00% 21,000
1942	Highland Surprise Consolidated Mining Co.	Owner	100.00% 14,474
1943	Highland Surprise Consolidated Mining Co.	Owner	100.00% 18,130
1944	Highland Surprise Consolidated Mining Co.	Owner	100.00% 34,857
1945	Highland Surprise Consolidated Mining Co.	Owner	100.00% 30,528
1946	Highland Surprise Consolidated Mining Co.	Owner	100.00% 25,940
1947	Highland Surprise Consolidated Mining Co.	Owner	100.00% 40,888
1948	Highland Surprise Consolidated Mining Co.	Owner	100.00% 72,925
1949	Highland Surprise Consolidated Mining Co.	Owner	100.00% 52,313
1950	Highland Surprise Consolidated Mining Co.	Owner	100.00% 32,100
1951	Highland Surprise Consolidated Mining Co.	Owner	100.00% 25,000
1952	Highland Surprise Consolidated Mining Co.	Owner	100.00% 25,879
1953	Highland Surprise Consolidated Mining Co.	Owner	100.00% 15,065
1954	Highland Surprise Consolidated Mining Co.	Owner	100.00% 6,679
1955	Highland Surprise Consolidated Mining Co.	Owner	100.00% 1,609
1956	Highland Surprise Consolidated Mining Co.	Owner	100.00% 361
1962	Highland Surprise Consolidated Mining Co.	Owner	100.00% 4
1966	Highland Surprise Consolidated Mining Co.	Owner	100.00% 103
1967	Highland Surprise Consolidated Mining Co.	Owner	100.00% 45
1971	Highland Surprise Consolidated Mining Co.	Owner	50.00% 107
	Sunshine Mining Co.	Operator	50.00% 107

Total Short Tons of Mined Ore:	518,706
Total Short Tons from this mine according to Bennett and Mitchell:	518,706

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Highland Surprise Consolidated Mining Co.	513,420	98.98%
Surprise Mining & Milling Co., Ltd.	4,897	0.94%
Various Highland Surprise Owners	283	0.05%
Sunshine Mining Co.	107	0.02%

HYPOTHEEK

Draft Defendant Company Report

Hypothek Mining & Milling Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Hypothek	1913 — 1954	88,702
Total Tons of Mined Ore:		88,702
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.11%

The above defendant company is successor in interest to the following owner / operators:

Hypothek Mining & Milling Co.

Draft Mine Production Report

Hypothek Mine

Drainage: Outside the Basin

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1914	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1915	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1916	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1917	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1918	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1919	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1920	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1921	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1922	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1923	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1924	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1925	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1926	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1927	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1928	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1929	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1930	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1931	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1932	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1933	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1934	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1935	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1936	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1937	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1938	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1939	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1940	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1941	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1942	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1943	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1944	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1945	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1946	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1947	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1948	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1949	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1950	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1951	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1952	Hypothek Mining & Milling Co.	Owner 100.00%	2,112
1953	Hypothek Mining & Milling Co.	Owner 100.00%	2,111
1954	Hypothek Mining & Milling Co.	Owner 100.00%	2,111

Total Short Tons of Mined Ore:	88,702
Total Short Tons from this mine according to Bennett and Mitchell:	88,702

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Hypothek Mining & Milling Co.	88,702 100.00%

11/14/97

MASCOT SILVER-LEAD

Draft Defendant Company Report

Mascot Silver-Lead Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Little Pittsburg	1916 — 1931	318,327
Total Tons of Mined Ore:		318,327
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.38%

The above defendant company is successor in interest to the following owner / operators:

Pine Creek Lead-Zinc Mining Co.

Various Little Pittsburg Owners

Draft Mine Production Report

Little Pittsburg Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1916	Various Little Pittsburg Owners	Owner 100.00%	7,959
1917	Various Little Pittsburg Owners	Owner 100.00%	7,959
1918	Various Little Pittsburg Owners	Owner 100.00%	7,959
1919	Various Little Pittsburg Owners	Owner 100.00%	7,959
1920	Various Little Pittsburg Owners	Owner 100.00%	7,959
1921	Various Little Pittsburg Owners	Owner 100.00%	7,959
1922	Various Little Pittsburg Owners	Owner 100.00%	7,959
1923	Various Little Pittsburg Owners	Owner 100.00%	7,958
1924	Various Little Pittsburg Owners	Owner 100.00%	7,958
1925	Various Little Pittsburg Owners	Owner 100.00%	7,958
1926	Various Little Pittsburg Owners	Owner 100.00%	7,958
1927	Various Little Pittsburg Owners	Owner 100.00%	7,958
1928	Various Little Pittsburg Owners	Owner 100.00%	7,958
1929	Various Little Pittsburg Owners	Owner 100.00%	7,958
1930	Various Little Pittsburg Owners	Owner 100.00%	7,958
1931	Various Little Pittsburg Owners	Owner 100.00%	7,958
1932	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1933	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1934	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1935	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1936	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1937	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1938	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1939	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1940	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1941	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1942	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1943	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1944	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1945	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1946	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1947	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1948	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1949	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1950	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1951	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1952	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1953	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1954	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958
1955	Pine Creek Lead-Zinc Mining Co.	Owner 100.00%	7,958

Total Short Tons of Mined Ore:	318,327
Total Short Tons from this mine according to Bennett and Mitchell:	320,674

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Pine Creek Lead-Zinc Mining Co.	190,992	60.00%
Various Little Pittsburg Owners	127,335	40.00%

NABOB SILVER-LEAD

Draft Defendant Company Report

Nabob Silver-Lead Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Nabob	1919 — 1920	128,361
Total Tons of Mined Ore:		128,361
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.15%

The above defendant company is successor in interest to the following owner / operators:

Nabob Consolidated Mining Co.

Nabob Mining Co.

Nabob Silver-Lead Company

Various Nabob Mine Owners

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner	100.00% 39
1916	Nabob Mining Co.	Owner	100.00% 36
1917	Nabob Mining Co.	Owner	100.00% 398
1919	Nabob Consolidated Mining Co.	Owner	100.00% 25
1920	Nabob Consolidated Mining Co.	Owner	100.00% 5,900
1924	Nabob Silver-Lead Company	Owner	100.00% 10,307
1925	Nabob Silver-Lead Company	Owner	100.00% 6,835
1926	Nabob Silver-Lead Company	Owner	100.00% 38
1941	Nabob Silver-Lead Company	Owner	100.00% 1,200
1943	Nabob Silver-Lead Company	Owner	100.00% 250
1944	Nabob Silver-Lead Company	Owner	100.00% 16,248
1945	Nabob Silver-Lead Company	Owner	100.00% 3,990
1946	Nabob Silver-Lead Company	Owner	100.00% 8,000
1947	Nabob Silver-Lead Company	Owner	100.00% 8,000
1948	Nabob Silver-Lead Company	Owner	100.00% 5
1949	Nabob Silver-Lead Company	Owner	100.00% 6,616
1950	Nabob Silver-Lead Company	Owner	100.00% 5,100
1951	Nabob Silver-Lead Company	Owner	100.00% 456
1952	Nabob Silver-Lead Company	Owner	100.00% 7,852
1953	Nabob Silver-Lead Company	Owner	100.00% 3,703
1954	Nabob Silver-Lead Company	Owner	100.00% 5,600
1955	Nabob Silver-Lead Company	Owner	100.00% 8,850
1956	Nabob Silver-Lead Company	Owner	100.00% 2,000
1957	Nabob Silver-Lead Company	Owner	100.00% 7,750
1958	Nabob Silver-Lead Company	Owner	100.00% 33
1959	Nabob Silver-Lead Company	Owner	50.00% 4,475
	Sidney Mining Co.	Operator	50.00% 4,475
1960	Nabob Silver-Lead Company	Owner	50.00% 1,181
	Sidney Mining Co.	Operator	50.00% 1,181
1964	Nabob Silver-Lead Company	Owner	100.00% 437
1965	Nabob Silver-Lead Company	Owner	100.00% 2,079
1966	Nabob Silver-Lead Company	Owner	100.00% 1,569
1967	Nabob Silver-Lead Company	Owner	100.00% 936
1968	Nabob Silver-Lead Company	Owner	50.00% 33
	Sunshine Mining Co.	Operator	50.00% 33
1969	Nabob Silver-Lead Company	Owner	50.00% 21
	Sunshine Mining Co.	Operator	50.00% 21
1975	Nabob Silver-Lead Company	Owner	100.00% 900
1976	Nabob Silver-Lead Company	Owner	100.00% 2,500
1977	Nabob Silver-Lead Company	Owner	100.00% 5,000

Total Short Tons of Mined Ore:	134,069
Total Short Tons from this mine according to Bennett and Mitchell:	134,069

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Nabob Silver-Lead Company	121,963	90.97%
Nabob Consolidated Mining Co.	5,925	4.42%
Sidney Mining Co.	5,656	4.22%
Nabob Mining Co.	434	0.32%
Sunshine Mining Co.	53	0.04%
Various Nabob Mine Owners	39	0.03%

SIDNEY

Draft Defendant Company Report

Sidney Mining Company

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Nabob	1959 — 1960	5,656
Sidney	1921 — 1970	1,071,261
Total Tons of Mined Ore:		1,076,917
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		1.28%

The above defendant company is successor in interest to the following owner / operators:

Sidney Mining Co.

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner	100.00% 39
1916	Nabob Mining Co.	Owner	100.00% 36
1917	Nabob Mining Co.	Owner	100.00% 398
1919	Nabob Consolidated Mining Co.	Owner	100.00% 25
1920	Nabob Consolidated Mining Co.	Owner	100.00% 5,900
1924	Nabob Silver-Lead Company	Owner	100.00% 10,307
1925	Nabob Silver-Lead Company	Owner	100.00% 6,835
1926	Nabob Silver-Lead Company	Owner	100.00% 38
1941	Nabob Silver-Lead Company	Owner	100.00% 1,200
1943	Nabob Silver-Lead Company	Owner	100.00% 250
1944	Nabob Silver-Lead Company	Owner	100.00% 16,248
1945	Nabob Silver-Lead Company	Owner	100.00% 3,990
1946	Nabob Silver-Lead Company	Owner	100.00% 8,000
1947	Nabob Silver-Lead Company	Owner	100.00% 8,000
1948	Nabob Silver-Lead Company	Owner	100.00% 5
1949	Nabob Silver-Lead Company	Owner	100.00% 6,616
1950	Nabob Silver-Lead Company	Owner	100.00% 5,100
1951	Nabob Silver-Lead Company	Owner	100.00% 456
1952	Nabob Silver-Lead Company	Owner	100.00% 7,852
1953	Nabob Silver-Lead Company	Owner	100.00% 3,703
1954	Nabob Silver-Lead Company	Owner	100.00% 5,600
1955	Nabob Silver-Lead Company	Owner	100.00% 8,850
1956	Nabob Silver-Lead Company	Owner	100.00% 2,000
1957	Nabob Silver-Lead Company	Owner	100.00% 7,750
1958	Nabob Silver-Lead Company	Owner	100.00% 33
1959	Nabob Silver-Lead Company	Owner	50.00% 4,475
	Sidney Mining Co.	Operator	50.00% 4,475
1960	Nabob Silver-Lead Company	Owner	50.00% 1,181
	Sidney Mining Co.	Operator	50.00% 1,181
1964	Nabob Silver-Lead Company	Owner	100.00% 437
1965	Nabob Silver-Lead Company	Owner	100.00% 2,079
1966	Nabob Silver-Lead Company	Owner	100.00% 1,569
1967	Nabob Silver-Lead Company	Owner	100.00% 936
1968	Nabob Silver-Lead Company	Owner	50.00% 33
	Sunshine Mining Co.	Operator	50.00% 33
1969	Nabob Silver-Lead Company	Owner	50.00% 21
	Sunshine Mining Co.	Operator	50.00% 21
1975	Nabob Silver-Lead Company	Owner	100.00% 900
1976	Nabob Silver-Lead Company	Owner	100.00% 2,500
1977	Nabob Silver-Lead Company	Owner	100.00% 5,000

Total Short Tons of Mined Ore:	134,069
Total Short Tons from this mine according to Bennett and Mitchell:	134,069

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Nabob Silver-Lead Company	121,963 90.97%
Nabob Consolidated Mining Co.	5,925 4.42%
Sidney Mining Co.	5,656 4.22%
Nabob Mining Co.	434 0.32%
Sunshine Mining Co.	53 0.04%
Various Nabob Mine Owners	39 0.03%

Draft Mine Production Report

Sidney Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1921	Sidney Mining Co.	Owner 100.00%	437
1922	Sidney Mining Co.	Owner 100.00%	585
1923	Sidney Mining Co.	Owner 100.00%	88
1925	Sidney Mining Co.	Owner 100.00%	1,982
1926	Sidney Mining Co.	Owner 100.00%	19,525
1927	Sidney Mining Co.	Owner 100.00%	87,636
1928	Sidney Mining Co.	Owner 100.00%	29,457
1929	Sidney Mining Co.	Owner 100.00%	46,665
1930	Sidney Mining Co.	Owner 100.00%	46,740
1931	Sidney Mining Co.	Owner 100.00%	24,077
1932	Sidney Mining Co.	Owner 100.00%	11,456
1935	Sidney Mining Co.	Owner 100.00%	6,015
1936	Sidney Mining Co.	Owner 100.00%	25,618
1937	Sidney Mining Co.	Owner 100.00%	18,569
1938	Sidney Mining Co.	Owner 100.00%	686
1942	Sidney Mining Co.	Owner 100.00%	1,634
1943	Sidney Mining Co.	Owner 100.00%	7,265
1944	Sidney Mining Co.	Owner 100.00%	12,215
1945	Sidney Mining Co.	Owner 100.00%	17,286
1946	Sidney Mining Co.	Owner 100.00%	24,562
1947	Sidney Mining Co.	Owner 100.00%	70,865
1948	Sidney Mining Co.	Owner 100.00%	89,724
1949	Sidney Mining Co.	Owner 100.00%	63,499
1950	Sidney Mining Co.	Owner 100.00%	85,731
1951	Sidney Mining Co.	Owner 100.00%	71,951
1952	Sidney Mining Co.	Owner 100.00%	67,844
1953	Sidney Mining Co.	Owner 100.00%	60,413
1954	Sidney Mining Co.	Owner 100.00%	32,040
1955	Sidney Mining Co.	Owner 100.00%	23,322
1956	Sidney Mining Co.	Owner 100.00%	38,847
1957	Sidney Mining Co.	Owner 100.00%	44,461
1958	Sidney Mining Co.	Owner 100.00%	27,400
1959	Sidney Mining Co.	Owner 100.00%	7,200
1960	Sidney Mining Co.	Owner 100.00%	1,143
1962	Sidney Mining Co.	Owner 100.00%	65
1965	Sidney Mining Co.	Owner 100.00%	820
1966	Sidney Mining Co.	Owner 100.00%	389
1967	Sidney Mining Co.	Owner 100.00%	431
1968	Sidney Mining Co.	Owner 100.00%	1,853
1969	Sidney Mining Co.	Owner 100.00%	683
1970	Sidney Mining Co.	Owner 100.00%	82

Total Short Tons of Mined Ore:	1,071,261
Total Short Tons from this mine according to Bennett and Mitchell:	1,071,197

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Sidney Mining Co.	1,071,261	100.00%
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SILVER BOWL

Draft Defendant Company Report

Silver Bowl, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Senator Stewart	1924 -- 1931	1,041,914
Total Tons of Mined Ore:		1,041,914
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		1.24%

The above defendant company is successor in interest to the following owner / operators:

Silver Bowl, Inc.

Stewart Mining Co.

Stewart Silver-Lead Co.

Draft Mine Production Report

Senator Stewart Mine

Drainage: South Fork of CDA in the box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Stewart Mining Co.	Owner 100.00%	300
1905	Stewart Mining Co.	Owner 100.00%	2,490
1906	Stewart Mining Co.	Owner 100.00%	100
1907	Stewart Mining Co.	Owner 100.00%	912
1910	Stewart Mining Co.	Owner 100.00%	55,346
1911	Stewart Mining Co.	Owner 100.00%	147,503
1912	Stewart Mining Co.	Owner 100.00%	184,344
1913	Stewart Mining Co.	Owner 100.00%	174,675
1914	Stewart Mining Co.	Owner 100.00%	189,615
1915	Stewart Mining Co.	Owner 100.00%	180,023
1916	Stewart Mining Co.	Owner 100.00%	67,523
1917	Stewart Mining Co.	Owner 100.00%	30,331
1918	Stewart Mining Co.	Owner 100.00%	1,094
1919	Stewart Mining Co.	Owner 100.00%	240
1920	Stewart Mining Co.	Owner 100.00%	147
1921	Stewart Mining Co.	Owner 100.00%	61
1922	Stewart Mining Co.	Owner 100.00%	27
1924	Stewart Silver-Lead Co.	Owner 100.00%	12
1925	Stewart Silver-Lead Co.	Owner 100.00%	26
1926	Stewart Silver-Lead Co.	Owner 100.00%	1,007
1927	Stewart Silver-Lead Co.	Owner 100.00%	547
1928	Stewart Silver-Lead Co.	Owner 100.00%	1,158
1930	Stewart Silver-Lead Co.	Owner 100.00%	43
1931	Stewart Silver-Lead Co.	Owner 100.00%	115
1946	Silver Bowl, Inc.	Owner 100.00%	894
1947	Silver Bowl, Inc.	Owner 100.00%	1,074
1948	Silver Bowl, Inc.	Owner 100.00%	457
1950	Silver Bowl, Inc.	Owner 100.00%	1,760
1951	Silver Bowl, Inc.	Owner 100.00%	90

Total Short Tons of Mined Ore: 1,041,914

**Total Short Tons from this mine
according to Bennett and Mitchell:** 1,041,814

Total Short Tons of Mined Ore per Owner/Operator: Percentage of This Mine's Ore:

Stewart Mining Co.	1,034,731	99.31%
Silver Bowl, Inc.	4,275	0.41%
Stewart Silver-Lead Co.	2,908	0.28%

SUNSHINE

Draft Defendant Company Report

Sunshine Mining and Refining Company, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Highland Surprise	1971 — 1971	107
Nabob	1968 — 1969	53
Sunshine	1904 — 1925	7,549,634
Total Tons of Mined Ore:		7,549,794
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		9.01%

The above defendant company is successor in interest to the following owner / operators:

Blake Brothers

Silver Dollar

Sunshine Mining Co.

Yankee Girl Mining Co.

Draft Mine Production Report

Highland Surprise Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	100.00%	Short Tons of Mined Ore
1904	Various Highland Surprise Owners	Owner	100.00%	18
1905	Various Highland Surprise Owners	Owner	100.00%	15
1907	Various Highland Surprise Owners	Owner	100.00%	250
1910	Surprise Mining & Milling Co., Ltd.	Owner	100.00%	89
1911	Surprise Mining & Milling Co., Ltd.	Owner	100.00%	3,200
1912	Surprise Mining & Milling Co., Ltd.	Owner	100.00%	1,608
1914	Highland Surprise Consolidated Mining Co.	Owner	100.00%	32
1915	Highland Surprise Consolidated Mining Co.	Owner	100.00%	700
1916	Highland Surprise Consolidated Mining Co.	Owner	100.00%	18,458
1917	Highland Surprise Consolidated Mining Co.	Owner	100.00%	20,324
1922	Highland Surprise Consolidated Mining Co.	Owner	100.00%	103
1923	Highland Surprise Consolidated Mining Co.	Owner	100.00%	221
1924	Highland Surprise Consolidated Mining Co.	Owner	100.00%	64
1925	Highland Surprise Consolidated Mining Co.	Owner	100.00%	11,751
1926	Highland Surprise Consolidated Mining Co.	Owner	100.00%	31,065
1927	Highland Surprise Consolidated Mining Co.	Owner	100.00%	12,695
1941	Highland Surprise Consolidated Mining Co.	Owner	100.00%	21,000
1942	Highland Surprise Consolidated Mining Co.	Owner	100.00%	14,474
1943	Highland Surprise Consolidated Mining Co.	Owner	100.00%	18,130
1944	Highland Surprise Consolidated Mining Co.	Owner	100.00%	34,857
1945	Highland Surprise Consolidated Mining Co.	Owner	100.00%	30,528
1946	Highland Surprise Consolidated Mining Co.	Owner	100.00%	25,940
1947	Highland Surprise Consolidated Mining Co.	Owner	100.00%	40,888
1948	Highland Surprise Consolidated Mining Co.	Owner	100.00%	72,925
1949	Highland Surprise Consolidated Mining Co.	Owner	100.00%	52,313
1950	Highland Surprise Consolidated Mining Co.	Owner	100.00%	32,100
1951	Highland Surprise Consolidated Mining Co.	Owner	100.00%	25,000
1952	Highland Surprise Consolidated Mining Co.	Owner	100.00%	25,879
1953	Highland Surprise Consolidated Mining Co.	Owner	100.00%	15,065
1954	Highland Surprise Consolidated Mining Co.	Owner	100.00%	6,679
1955	Highland Surprise Consolidated Mining Co.	Owner	100.00%	1,609
1956	Highland Surprise Consolidated Mining Co.	Owner	100.00%	361
1962	Highland Surprise Consolidated Mining Co.	Owner	100.00%	4
1966	Highland Surprise Consolidated Mining Co.	Owner	100.00%	103
1967	Highland Surprise Consolidated Mining Co.	Owner	100.00%	45
1971	Highland Surprise Consolidated Mining Co.	Owner	50.00%	107
	Sunshine Mining Co.	Operator	50.00%	107

Total Short Tons of Mined Ore:	518,706
Total Short Tons from this mine according to Bennett and Mitchell:	518,706

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:	
Highland Surprise Consolidated Mining Co.	513,420	98.98%
Surprise Mining & Milling Co., Ltd.	4,897	0.94%
Various Highland Surprise Owners	283	0.05%
Sunshine Mining Co.	107	0.02%

Draft Mine Production Report

Nabob Mine

Drainage: Pine Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1907	Various Nabob Mine Owners	Owner	100.00% 39
1916	Nabob Mining Co.	Owner	100.00% 36
1917	Nabob Mining Co.	Owner	100.00% 398
1919	Nabob Consolidated Mining Co.	Owner	100.00% 25
1920	Nabob Consolidated Mining Co.	Owner	100.00% 5,900
1924	Nabob Silver-Lead Company	Owner	100.00% 10,307
1925	Nabob Silver-Lead Company	Owner	100.00% 6,835
1926	Nabob Silver-Lead Company	Owner	100.00% 38
1941	Nabob Silver-Lead Company	Owner	100.00% 1,200
1943	Nabob Silver-Lead Company	Owner	100.00% 250
1944	Nabob Silver-Lead Company	Owner	100.00% 16,248
1945	Nabob Silver-Lead Company	Owner	100.00% 3,990
1946	Nabob Silver-Lead Company	Owner	100.00% 8,000
1947	Nabob Silver-Lead Company	Owner	100.00% 8,000
1948	Nabob Silver-Lead Company	Owner	100.00% 5
1949	Nabob Silver-Lead Company	Owner	100.00% 6,616
1950	Nabob Silver-Lead Company	Owner	100.00% 5,100
1951	Nabob Silver-Lead Company	Owner	100.00% 456
1952	Nabob Silver-Lead Company	Owner	100.00% 7,852
1953	Nabob Silver-Lead Company	Owner	100.00% 3,703
1954	Nabob Silver-Lead Company	Owner	100.00% 5,600
1955	Nabob Silver-Lead Company	Owner	100.00% 8,850
1956	Nabob Silver-Lead Company	Owner	100.00% 2,000
1957	Nabob Silver-Lead Company	Owner	100.00% 7,750
1958	Nabob Silver-Lead Company	Owner	100.00% 33
1959	Nabob Silver-Lead Company	Owner	50.00% 4,475
	Sidney Mining Co.	Operator	50.00% 4,475
1960	Nabob Silver-Lead Company	Owner	50.00% 1,181
	Sidney Mining Co.	Operator	50.00% 1,181
1964	Nabob Silver-Lead Company	Owner	100.00% 437
1965	Nabob Silver-Lead Company	Owner	100.00% 2,079
1966	Nabob Silver-Lead Company	Owner	100.00% 1,569
1967	Nabob Silver-Lead Company	Owner	100.00% 936
1968	Nabob Silver-Lead Company	Owner	50.00% 33
	Sunshine Mining Co.	Operator	50.00% 33
1969	Nabob Silver-Lead Company	Owner	50.00% 21
	Sunshine Mining Co.	Operator	50.00% 21
1975	Nabob Silver-Lead Company	Owner	100.00% 900
1976	Nabob Silver-Lead Company	Owner	100.00% 2,500
1977	Nabob Silver-Lead Company	Owner	100.00% 5,000

Total Short Tons of Mined Ore:	134,069
Total Short Tons from this mine according to Bennett and Mitchell:	134,069

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Nabob Silver-Lead Company	121,963 90.97%
Nabob Consolidated Mining Co.	5,925 4.42%
Sidney Mining Co.	5,656 4.22%
Nabob Mining Co.	434 0.32%
Sunshine Mining Co.	53 0.04%
Various Nabob Mine Owners	39 0.03%

Draft Mine Production Report

Sunshine Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1904	Blake Brothers	Owner 100.00%	25
1905	Blake Brothers	Owner 100.00%	28
1908	Blake Brothers	Owner 100.00%	28
1912	Blake Brothers	Owner 100.00%	92
1913	Blake Brothers	Owner 100.00%	77
1914	Blake Brothers	Owner 100.00%	358
1915	Blake Brothers	Owner 100.00%	193
1916	Blake Brothers	Owner 100.00%	403
1917	Blake Brothers	Owner 50.00%	1,244
	Yankee Girl Mining Co.	Owner 50.00%	1,244
1918	Blake Brothers	Owner 50.00%	336
	Yankee Girl Mining Co.	Owner 50.00%	336
1919	Blake Brothers	Owner 50.00%	138
	Yankee Girl Mining Co.	Owner 50.00%	138
1920	Blake Brothers	Owner 50.00%	303
	Yankee Girl Mining Co.	Owner 50.00%	303
1921	Blake Brothers	Owner 34.00%	283
	Sunshine Mining Co.	Operator 33.00%	274
	Yankee Girl Mining Co.	Owner 33.00%	274
1922	Blake Brothers	Owner 34.00%	731
	Sunshine Mining Co.	Operator 33.00%	709
	Yankee Girl Mining Co.	Owner 33.00%	709
1923	Blake Brothers	Owner 34.00%	895
	Sunshine Mining Co.	Operator 33.00%	868
	Yankee Girl Mining Co.	Owner 33.00%	868
1924	Blake Brothers	Owner 34.00%	6,467
	Sunshine Mining Co.	Operator 33.00%	6,277
	Yankee Girl Mining Co.	Owner 33.00%	6,277
1925	Blake Brothers	Owner 34.00%	8,869
	Sunshine Mining Co.	Operator 33.00%	8,608
	Yankee Girl Mining Co.	Owner 33.00%	8,608
1926	Sunshine Mining Co.	Owner 100.00%	21,435
1927	Sunshine Mining Co.	Owner 100.00%	40,000
1928	Sunshine Mining Co.	Owner 100.00%	1,838
1929	Sunshine Mining Co.	Owner 100.00%	62,392
1930	Sunshine Mining Co.	Owner 100.00%	147,948
1931	Sunshine Mining Co.	Owner 100.00%	183,441
1932	Sunshine Mining Co.	Owner 100.00%	151,883
1933	Sunshine Mining Co.	Owner 100.00%	109,010
1934	Sunshine Mining Co.	Owner 100.00%	108,606
1935	Sunshine Mining Co.	Owner 100.00%	160,417
1936	Sunshine Mining Co.	Owner 100.00%	215,955
1937	Sunshine Mining Co.	Owner 100.00%	255,800
1938	Sunshine Mining Co.	Owner 100.00%	317,984

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1939	Sunshine Mining Co.	Owner	100.00%	320,990
1940	Sunshine Mining Co.	Owner	100.00%	278,810
1941	Sunshine Mining Co.	Owner	100.00%	309,700
1942	Sunshine Mining Co.	Owner	100.00%	251,700
1943	Sunshine Mining Co.	Owner	100.00%	155,412
1944	Sunshine Mining Co.	Owner	100.00%	42,273
1945	Sunshine Mining Co.	Owner	100.00%	32,285
1946	Sunshine Mining Co.	Owner	100.00%	21,251
1947	Sunshine Mining Co.	Owner	100.00%	64,120
1948	Sunshine Mining Co.	Owner	100.00%	84,852
1949	Sunshine Mining Co.	Owner	100.00%	89,289
1950	Sunshine Mining Co.	Owner	100.00%	144,098
1951	Sunshine Mining Co.	Owner	100.00%	116,324
1952	Sunshine Mining Co.	Owner	100.00%	114,467
1953	Sunshine Mining Co.	Owner	100.00%	127,818
1954	Sunshine Mining Co.	Owner	100.00%	260,698
1955	Sunshine Mining Co.	Owner	100.00%	119,596
1956	Sunshine Mining Co.	Owner	100.00%	200,028
1957	Sunshine Mining Co.	Owner	100.00%	206,385
1958	Hecla Mining Co.	Operator	33.25%	77,128
	Silver Dollar	Operator	9.61%	22,292
	Sunshine Mining Co.	Owner	57.14%	132,544
1959	Hecla Mining Co.	Operator	33.25%	77,987
	Silver Dollar	Operator	9.61%	22,540
	Sunshine Mining Co.	Owner	57.14%	134,021
1960	Hecla Mining Co.	Operator	33.25%	77,254
	Silver Dollar	Operator	9.61%	22,328
	Sunshine Mining Co.	Owner	57.14%	132,760
1961	Hecla Mining Co.	Operator	33.25%	62,817
	Silver Dollar	Operator	9.61%	18,156
	Sunshine Mining Co.	Owner	57.14%	107,951
1962	Hecla Mining Co.	Operator	33.25%	45,149
	Silver Dollar	Operator	9.61%	13,049
	Sunshine Mining Co.	Owner	57.14%	77,588
1963	Hecla Mining Co.	Operator	33.25%	44,102
	Silver Dollar	Operator	9.61%	12,746
	Sunshine Mining Co.	Owner	57.14%	75,789
1964	Hecla Mining Co.	Operator	33.25%	43,823
	Silver Dollar	Operator	9.61%	12,666
	Sunshine Mining Co.	Owner	57.14%	75,310
1965	Hecla Mining Co.	Operator	33.25%	56,114
	Silver Dollar	Operator	9.61%	16,218
	Sunshine Mining Co.	Owner	57.14%	96,431
1966	Hecla Mining Co.	Operator	33.25%	63,435
	Silver Dollar	Operator	9.61%	18,334
	Sunshine Mining Co.	Owner	57.14%	109,013
1967	Hecla Mining Co.	Operator	33.25%	79,772
	Silver Dollar	Operator	9.61%	23,056
	Sunshine Mining Co.	Owner	57.14%	137,087
1968	Hecla Mining Co.	Operator	33.25%	83,820
	Silver Dollar	Operator	9.61%	24,226
	Sunshine Mining Co.	Owner	57.14%	144,044

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1969	Hecla Mining Co.	Operator	33.25%	90,279
	Silver Dollar	Operator	9.61%	26,093
	Sunshine Mining Co.	Owner	57.14%	155,144
1970	Hecla Mining Co.	Operator	33.25%	84,082
	Silver Dollar	Operator	9.61%	24,302
	Sunshine Mining Co.	Owner	57.14%	144,495
1971	Hecla Mining Co.	Operator	33.25%	86,070
	Silver Dollar	Operator	9.61%	24,876
	Sunshine Mining Co.	Owner	57.14%	147,911
1972	Hecla Mining Co.	Operator	33.25%	34,316
	Silver Dollar	Operator	9.61%	9,918
	Sunshine Mining Co.	Owner	57.14%	58,972
1973	Hecla Mining Co.	Operator	33.25%	41,077
	Silver Dollar	Operator	9.61%	11,872
	Sunshine Mining Co.	Owner	57.14%	70,590
1974	Hecla Mining Co.	Operator	33.25%	60,530
	Silver Dollar	Operator	9.61%	17,495
	Sunshine Mining Co.	Owner	57.14%	104,021
1975	Hecla Mining Co.	Operator	33.25%	75,111
	Silver Dollar	Operator	9.61%	21,709
	Sunshine Mining Co.	Owner	57.14%	129,078
1976	Hecla Mining Co.	Operator	33.25%	15,251
	Silver Dollar	Operator	9.61%	4,408
	Sunshine Mining Co.	Owner	57.14%	26,210
1977	Hecla Mining Co.	Operator	33.25%	51,576
	Silver Dollar	Operator	9.61%	14,907
	Sunshine Mining Co.	Owner	57.14%	88,633
1978	Hecla Mining Co.	Operator	33.25%	66,783
	Silver Dollar	Operator	9.61%	19,302
	Sunshine Mining Co.	Owner	57.14%	114,766
1979	Hecla Mining Co.	Operator	33.25%	57,266
	Silver Dollar	Operator	9.61%	16,551
	Sunshine Mining Co.	Owner	57.14%	98,411
1980	Hecla Mining Co.	Operator	33.25%	9,493
	Silver Dollar	Operator	9.61%	2,744
	Sunshine Mining Co.	Owner	57.14%	16,313

Total Short Tons of Mined Ore: 8,932,868

**Total Short Tons from this mine
according to Bennett and Mitchell:** 9,800,584

Total Short Tons of Mined Ore per Owner/Operator: **Percentage of This Mine's Ore:**

Sunshine Mining Co.	7,110,624	79.60%
Hecla Mining Co.	1,383,234	15.48%
Silver Dollar	399,786	4.48%
Blake Brothers	20,468	0.23%
Yankee Girl Mining Co.	18,757	0.21%

ZANETTI BROTHERS

Draft Defendant Company Report

Zanetti Brothers, Inc.

Mine Site Owned / Operated	Years of Operation	Short Tons of Mined Ore for which Defendant is Responsible
Interstate/Callahan	1950 — 1962	33,918
Sunset	1951 — 1976	47,080
Mineral Point	1950 — 1950	1,010
Total Tons of Mined Ore:		82,007
Total Tons Mined in the CDA Basin from 1884 - 1980:		83,816,527
Percent of CDA Basin Total:		0.10%

The above defendant company is successor in interest to the following owner / operators:

Zanetti Bros.

Draft Mine Production Report

Interstate/Callahan Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1906	Various Interstate-Callahan Mine Owners	Owner	116
1907	Various Interstate-Callahan Mine Owners	Owner	391
1908	Various Interstate-Callahan Mine Owners	Owner	223
1909	Various Interstate-Callahan Mine Owners	Owner	297
1910	Various Interstate-Callahan Mine Owners	Owner	195
1913	Consolidated Callahan Interstate Mining Co.	Owner	43,663
1914	Consolidated Callahan Interstate Mining Co.	Owner	88,664
1915	Consolidated Callahan Interstate Mining Co.	Owner	109,451
1916	Consolidated Callahan Interstate Mining Co.	Owner	139,004
1917	Consolidated Callahan Interstate Mining Co.	Owner	144,661
1918	Consolidated Callahan Interstate Mining Co.	Owner	157,456
1919	Consolidated Callahan Interstate Mining Co.	Owner	54,135
1920	Callahan Zinc-Lead Co.	Owner	129,833
1922	Callahan Zinc-Lead Co.	Owner	20,516
1923	Callahan Zinc-Lead Co.	Owner	114,179
1924	Callahan Zinc-Lead Co.	Owner	24
1937	Callahan Zinc-Lead Co.	Owner	16,950
1938	Callahan Zinc-Lead Co.	Owner	3,900
1939	Callahan Zinc-Lead Co.	Owner	3,200
1940	Callahan Zinc-Lead Co.	Owner	17,616
1941	Callahan Zinc-Lead Co.	Owner	46,000
1942	Callahan Zinc-Lead Co.	Owner	46,870
1943	Callahan Zinc-Lead Co.	Owner	25,100
1944	Callahan Zinc-Lead Co.	Owner	8,230
1945	Monitor Mining Co.	Owner	10,070
1946	Monitor Mining Co.	Owner	3,859
1948	Day Mines, Inc.	Owner	21,634
1949	Day Mines, Inc.	Owner	16,672
1950	Day Mines, Inc.	Owner	3,893
	Zanetti Bros.	Operator	3,893
1951	Day Mines, Inc.	Owner	7,185
1961	Day Mines, Inc.	Owner	2,025
	Zanetti Bros.	Operator	2,025
1962	Day Mines, Inc.	Owner	28,000
	Zanetti Bros.	Operator	28,000
1971	Day Mines, Inc.	Owner	18,751
1972	Day Mines, Inc.	Owner	20,259
1973	Day Mines, Inc.	Owner	20,674
1974	Day Mines, Inc.	Owner	22,118
1975	Day Mines, Inc.	Owner	19,533
1976	Day Mines, Inc.	Owner	21,027
1977	Day Mines, Inc.	Owner	3,328

Total Short Tons of Mined Ore:	1,423,619
Total Short Tons from this mine according to Bennett and Mitchell:	1,423,619

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Consolidated Callahan Interstate Mining Co.	737,034	51.77%
Callahan Zinc-Lead Co.	432,418	30.37%
Day Mines, Inc.	205,099	14.41%
Zanetti Bros.	33,918	2.38%
Monitor Mining Co.	13,929	0.98%
Various Interstate-Callahan Mine Owners	1,222	0.09%

Draft Mine Production Report

Mineral Point Mine

Drainage: South Fork of CDA from Canyon Creek to box

Year	Owner / Operator	Role	Short Tons of Mined Ore
1919	Mineral Point Mining Co.	Owner 100.00%	26
1920	Mineral Point Mining Co.	Owner 100.00%	21
1921	Mineral Point Mining Co.	Owner 100.00%	5
1922	Mineral Point Mining Co.	Owner 100.00%	8
1938	Coeur d'Alene Mines Corp.	Owner 100.00%	1,220
1939	Coeur d'Alene Mines Corp.	Owner 100.00%	17,502
1940	Coeur d'Alene Mines Corp.	Owner 100.00%	51,812
1941	Coeur d'Alene Mines Corp.	Owner 100.00%	87,672
1942	Coeur d'Alene Mines Corp.	Owner 100.00%	122,301
1943	Coeur d'Alene Mines Corp.	Owner 100.00%	78,753
1944	Coeur d'Alene Mines Corp.	Owner 100.00%	25,337
1945	Coeur d'Alene Mines Corp.	Owner 100.00%	12,455
1946	Coeur d'Alene Mines Corp.	Owner 100.00%	8,193
1947	Coeur d'Alene Mines Corp.	Owner 100.00%	18,198
1948	Coeur d'Alene Mines Corp.	Owner 100.00%	5,257
1949	Coeur d'Alene Mines Corp.	Owner 100.00%	1,562
1950	Coeur d'Alene Mines Corp.	Owner 50.00%	1,010
	Zanetti Bros.	Operator 50.00%	1,010
1951	Coeur d'Alene Mines Corp.	Owner 100.00%	7,682
1952	Coeur d'Alene Mines Corp.	Owner 100.00%	755

Total Short Tons of Mined Ore: 440,779

**Total Short Tons from this mine
according to Bennett and Mitchell:** 440,779

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
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Coeur d'Alene Mines Corp.	439,709	99.76%
Zanetti Bros.	1,010	0.23%
Mineral Point Mining Co.	60	0.01%

Draft Mine Production Report

Sunset Mine

Drainage: Ninemile Creek

Year	Owner / Operator	Role	Short Tons of Mined Ore
1913	William Clark	Owner 100.00%	25
1922	Clark-Montana Realty Co.	Owner 100.00%	76
1923	Clark-Montana Realty Co.	Owner 100.00%	67
1925	Clark-Montana Realty Co.	Owner 100.00%	22
1940	Anaconda Co.	Owner 100.00%	5,603
1941	Anaconda Co.	Owner 100.00%	25,416
1942	Anaconda Co.	Owner 100.00%	20,200
1943	Anaconda Co.	Owner 100.00%	24,917
1944	Anaconda Co.	Owner 100.00%	22,547
1945	Anaconda Co.	Owner 100.00%	24,982
1946	Anaconda Co.	Owner 100.00%	27,656
1947	Anaconda Co.	Owner 100.00%	32,185
1948	Anaconda Co.	Owner 100.00%	26,704
1949	Anaconda Co.	Owner 50.00%	10,792
	Day Mines, Inc.	Operator 50.00%	10,792
1950	Anaconda Co.	Owner 50.00%	17,439
	Day Mines, Inc.	Operator 50.00%	17,439
1951	Anaconda Co.	Owner 34.00%	11,390
	Day Mines, Inc.	Operator 33.00%	11,055
	Zanetti Bros.	Operator 33.00%	11,055
1952	Anaconda Co.	Owner 33.00%	8,255
	Day Mines, Inc.	Operator 34.00%	8,505
	Zanetti Bros.	Operator 33.00%	8,255
1953	Anaconda Co.	Owner 33.00%	10,201
	Day Mines, Inc.	Operator 33.00%	10,201
	Zanetti Bros.	Operator 34.00%	10,510
1954	Anaconda Co.	Owner 34.00%	5,722
	Day Mines, Inc.	Operator 33.00%	5,553
	Zanetti Bros.	Operator 33.00%	5,553
1955	Anaconda Co.	Owner 33.00%	4,838
	Day Mines, Inc.	Operator 34.00%	4,984
	Zanetti Bros.	Operator 33.00%	4,838
1956	Anaconda Co.	Owner 33.00%	1,924
	Day Mines, Inc.	Operator 33.00%	1,924
	Zanetti Bros.	Operator 34.00%	1,982
1957	Anaconda Co.	Owner 34.00%	3,581
	Day Mines, Inc.	Operator 33.00%	3,476
	Zanetti Bros.	Operator 33.00%	3,476
1958	Anaconda Co.	Owner 33.00%	663
	Day Mines, Inc.	Operator 34.00%	683
	Zanetti Bros.	Operator 33.00%	663
1976	Anaconda Co.	Owner 33.00%	726
	Day Mines, Inc.	Operator 33.00%	726
	Zanetti Bros.	Operator 34.00%	748

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Total Short Tons of Mined Ore:	408,347
Total Short Tons from this mine according to Bennett and Mitchell:	355,032

Total Short Tons of Mined Ore per Owner/Operator:	Percentage of This Mine's Ore:
Anaconda Co.	285,739 69.97%
Day Mines, Inc.	75,338 18.45%
Zanetti Bros.	47,080 11.53%
Clark-Montana Realty Co.	165 0.04%
William Clark	25 0.01%